

SERVICE MANUAL

\ 	HE/UHE ALL MODE TRANSCEIVER C-820H
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INTRODUCTION

This service manual describes the latest information for the IC-820H at the time of publication.

MODEL	VERSION NO.	VERSION	SYMBOL
	#12	Europe	EUR
10.00011	#14	Australia	AUS
IC-820H	#15	Sweden	SWE
	#16	U.S.A.	USA

DANGER

NEVER connect the transceiver to an AC outlet or to a DC power supply that uses more than 16 V. Such a connection could cause a fire hazard and/or electric shock.

DO NOT expose the transceiver to rain, snow or any liquids.

DO NOT apply an RF signal of more than 20 dBm (100 mW) to the antenna connector. This could damage the transceiver's front end.



ORDERING PARTS

Be sure to include the following four points when ordering replacement parts:

- 10-digit order numbers
- 2. Component part number and name
- 3. Equipment model name and unit name
- 4. Quantity required

<SAMPLE ORDER>

1110000960 S.IC NJM4558M(T1) IC-820H MAIN UNIT 1 piece 8810005510 Screw OH M3 x 6 IC-820H Top cover 6 pieces

Addresses are provided on the inside back cover for your convenience.

REPAIR NOTES

- Make sure a problem is internal before disassembling the transceiver.
- DO NOT open the transceiver until the transceiver is disconnected from its power source.
- DO NOT force any of the variable components. Turn them slowly and smoothly.
- DO NOT short any circuits or electronic parts. An insulated tuning tool MUST be used for all adjustments.
- DO NOT keep power ON for a long time when the transceiver is defective.
- DO NOT transmit power into a signal generator or a sweep generator.
- ALWAYS connect a 40 dB to 50 dB attenuator between the transceiver and a deviation meter or spectrum analyser when using such test equipment.
- READ the instructions of test equipment thoroughly before connecting equipment to the transceiver.

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To upgrade quality, all electrical or mechanical parts and internal circuits are subject to change without notice or obligation.

SECTION 1 **SPECIFICATIONS**

GENERAL

Frequency coverage:

Version	144 MHz band	440 MHz band
U.S.A.	Rx: 136.0-174.0 MHz* Tx: 144.0-148.0 MHz	430.0–450.0 MHz
Europe	144.0-146.0 MHz	430.0-440.0 MHz
Australia	144.0-148.0 MHz	430.0-450.0 MHz
Sweden	144.0-146.0 MHz	432.0-438.0 MHz

^{*} Guaranteed range is 144.0-146.0 MHz.

Mode

: SSB (A3J), CW (A1), FM(F3)

Number of memory : 116

channels

(50 regular, 1 call, 2 scan edges for each band and 10 satellite memories)

• Antenna impedance : 50 Ω unbalanced

• Usable temperature : -10°C to +60°C; +14°F to +140°F

range

• Frequency stability : ±3 ppm (-10°C to +60°C)

Power supply

: 13.8 V DC ±15%

requirement

Current drain

16.0 A : Transmit High

Low

7.0 A

Receive Max audio 2.5 A

> Stand-by 2.0 A

Dimensions

: 241(W) x 94(H) x 239(D) mm

 $9.5(W) \times 3.7(H) \times 9.4(D)$ in

(projections not included)

Weight

: 5.0 kg; 11.0 lb

■ TRANSMITTER

Output power

BAND	MODE	HIGH	LOW
144 MHz	FM, CW	45 W	6 W
144 MIZ	SSB	35 W	6 W
430 MHz	FM, CW	40 W	6 W
430 MHZ	SSB	30 W	6 W

• Spurious emissions : Less than -60 dB

Carrier suppression: More than 40 dB

• Unwanted sideband: More than 40 dB

Microphone

: 600Ω

impedance

RECEIVER

Receive system

144 MHz band

SSB, CW

Single conversion superheterodyne

Double conversion superheterodyne

FM 430 MHz band

SSB. CW

Double conversion superheterodyne

FM

Triple conversion superheterodyne

Intermediate frequencies:

(Unit: MHz)

	MODE	М	AIN BAN	ID	S	UB BAN	D
	MODE	1st	2nd	3rd	1st	2st	3rd
	SSB	10.8500	_		10.9500		
YH	CW	10.8491			10.9491		
	FM	10.8500	0.455		10.9500	0.455	
	SSB	71.2500	10.8500	-	71.3500	10.9500	******
H	CW	71.2491	10.8491		71.3491	10.9491	
	FM	71.2500	10.8500	0.455	71.3500	10.9500	0.455

Sensitivity (both VHF and UHF bands)

FM

0.18 µV for 12 dB SINAD

SSB, CW 0.11 µV for 10 dB S/N

• Squelch sensitivity (both VHF and UHF bands)

FM

Threshold Less than 0.1 µV

SSB, CW

Less than 0.5 µV Threshold Less than 1.0 µV

Tight

Tight Less than 3.2 mV

Selectivity

SSB, CW

More than

2.3 kHz/-6 dB

CW narrow More than

Less than

4.2 kHz/-60 dB 0.5 kHz/-6 dB

(optional) Less than

1.34 kHz/-60 dB

FM

More than

15.0 kHz/-6 dB

Less than

FM

30.0 kHz/-60 dB

60 dB

· Spurious and image: More than

rejection ratio

Audio output power : More than 2.0 W at 10% distortion

with an 8 Ω load

• RIT variable range : SSB, CW

±2 kHz (max.)

±10 kHz (max.)

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All stated specifications are subject to change without notice or obligation.

SECTION 2 DISASSEMBLY INSTRUCTIONS

Opening the top and bottom covers

- ① Remove 8 screws (M3 x 6) from the transceiver's top and 4 screws (M3 x 6) from the sides, then lift up the top cover.
- 2 Turn the transceiver upside down.
- 3 Remove 4 screws (M3 x 6) from the bottom cover, then lift up the bottom cover.

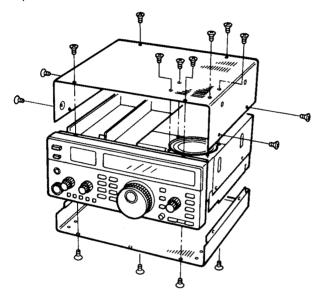


Fig. 1

• Removing the MAIN unit

- 1) Remove the top and bottom covers as shown Fig. 1.
- ② Remove 14 screws (3 x 6) from the MAIN unit as shown below.
- 3 Slide the MAIN unit forward slightly to free the ACC socket from the rear panel.
- 4 Lift up the MAIN unit from the rear panel side.

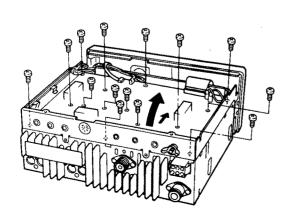


Fig. 3

Opening the inside chassis

- 1) Remove the top and bottom covers as shown Fig. 1.
- ② Loosen the gutter screw on each side of the front panel's rear side.
- 3 Remove 1 screw (M3 x 4) from each side of the front panel's rear side.
- 4 Pull the front panel forward as shown by the arrow at right.
- (5) Loosen 1 (M3 x 4) flat head screw from each side of the MAIN unit chassis.
- (6) Remove the 2 silver screws (Icom screw "A") from the rear panel.
- ① Lift up the MAIN unit chassis to see the PLL unit.
- (8) Tighten the screws (labelled (5)) to fix the MAIN unit chassis in a vertical position.

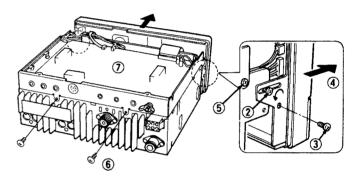


Fig. 2

• To see the PA-B unit

- ① Open the top and bottom covers as shown Fig. 1.
- ② Remove 8 screws (3 x 6) from the internal shield cover, then lift up the cover.

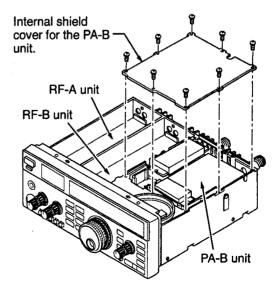
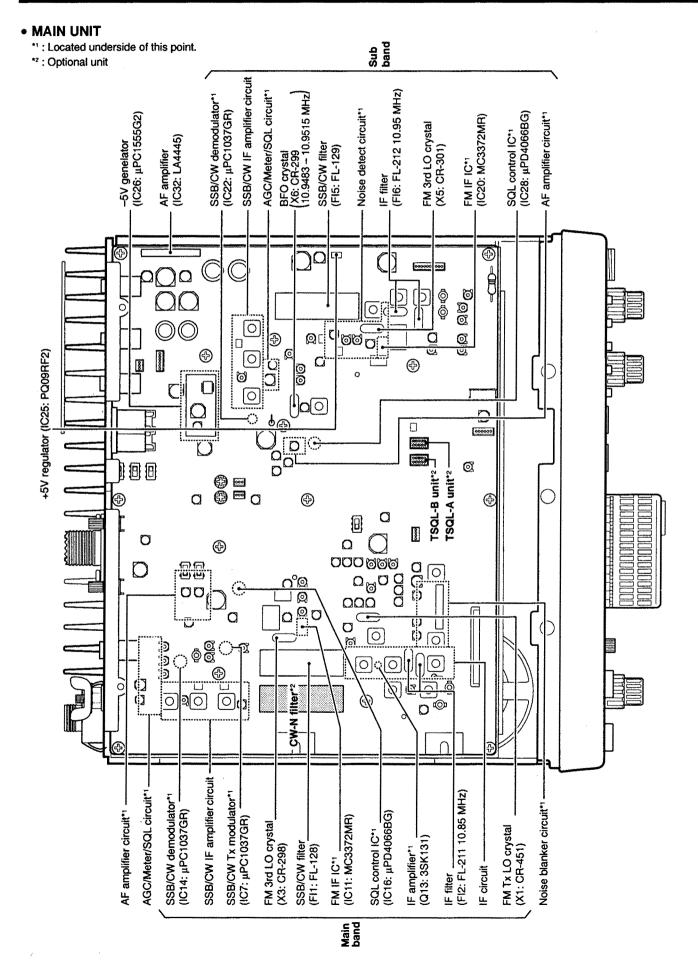


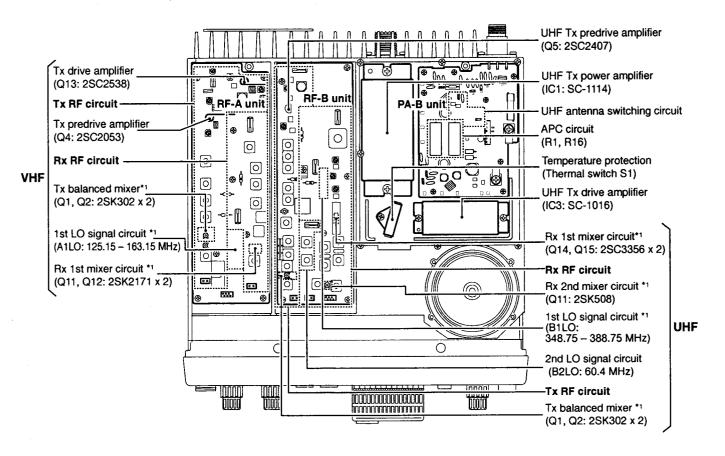
Fig. 4

SECTION 3 INSIDE VIEWS



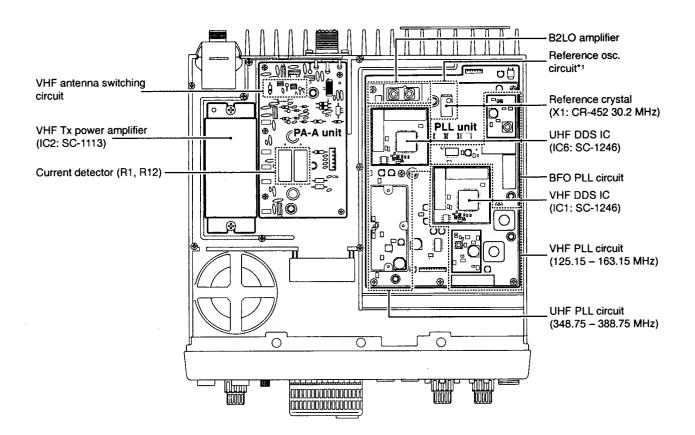
• RF-A, RF-B AND PA-B UNITS

*1: Located underside of this point.



• PA-A AND PLL UNITS (The both unit appear when the MAIN unit is removed.)

*1: Located underside of this point.



SECTION 4 CIRCUIT DESCRIPTION

4-1 RECEIVER CIRCUITS

Note: [main] = Main band [sub] = Sub band

4-1-1 VHF RF SWITCHING CIRCUIT (PA-A AND RF-A UNITS)

The RF switching circuit leads receive signals to bandpass filters from an antenna connector while receiving. While transmitting, this circuit leads the signals from the RF power amplifier to the antenna connector. This circuit includes a 20 dB RF attenuator circuit to prevent distortion from very strong signals.

RF signals from an antenna connector, pass through the low-pass filter (L3-L5, C5-C9), and are then applied to the antenna switching circuit (L6, C10, D2, L7, C11, D3, C12) on the PA-A unit.

The signals from the PA-A unit are applied at the 20 dB attenuator (D15) on the RF-A unit. The attenuator prevents distortion caused by strong signals. The signals are then applied to the RF amplifier circuit (Q7).

4-1-2 VHF RF CIRCUIT (RF-A UNIT)

The amplified signals at Q7 are passed through the bandpass filter (L13-L15, D10-D12, C47, C49-C55, C109, C123) to suppress any undesired band signals.

D10–D13 employ varactor diodes that track the bandpass filters and are controlled by the PLL lock voltage. These diodes tune the center frequency of an RF passband for wide bandwidth receiving and good image response rejection.

4-1-3 VHF 1st MIXER CIRCUIT (RF-A UNIT)

The 1st mixer circuit mixes the receive signals with the 1st LO signal to convert the receive signal frequencies to a 10.85 MHz 1st IF for the main band (a 10.95 MHz 1st IF for the sub band).

The signals from the RF circuit are mixed at Q11 and Q12 with a 1st LO signal (A1L0: 125.15 MHz–163.15 MHz). The 1st LO signal from the PLL unit is amplified at IC2 and is passed through the low-pass filter (L19, L20, C83–C85) to suppress harmonic components. The signal is applied both to the TX (Q1, Q2) and RX (Q11, Q12) mixer circuits.

After passing through the matching circuit (L21), the 1st IF signal is applied to the main band or the sub band IF circuit via the M/S switching circuit (D8, D9, Q5, Q6).

4-1-4 UHF RF SWITCHING CIRCUIT (PA-B AND RF-B UNITS)

Received UHF signals enter the antenna connector and pass through a low-pass filter (L3–L5, C5–C10). When receiving, the antenna switching circuit (D1–D3) turns OFF. The signals pass through a low-pass filter (L6, C12, C60, L7, C14). The filtered signals are applied to the RF-B unit via J4.

The signals from the PA-B unit are either bypassed or passed through the 15 dB attenuator (D16). The attenuator prevents distortion caused by strong signals. The signals are applied to a bandpass filter.

4-1-5 UHF RF CIRCUIT (RF-B UNIT)

A bandpass filter passes only the desired band signals and suppresses any undesired signals.

The filtered RF signals are applied to the RF amplifier (Q16) and are then amplified.

D11–D14 employ varactor diodes that track the bandpass filters and are controlled by the PLL lock voltage. These diodes tune the center frequency of an RF passband for wide bandwidth receiving and good image response rejection.

4-1-6 UHF 1st MIXER CIRCUIT (RF-B UNIT)

The filtered RF signals from Q16 are mixed at L30, Q14, Q15 and L29 with a 1st LO signal (B1LO: 348.75 MHz–388.75 MHz) and are then converted to a 71.25 MHz 1st IF for the main band (71.35 MHz for the sub band).

After passing through the matching circuit (L29), the 1st IF signal is passed through each of a crystal filter (FI1 [main]/FI2 [sub]) in order to pass only the desired signals (main band: 71.25 MHz/sub band: 71.35 MHz).

The filtered 1st IF signal is applied to the 2nd mixer circuit Q11 passing through D9.

4-1-7 UHF 2nd MIXER CIRCUIT (RF-B UNIT)

The 2nd mixer circuit (Q11) mixes the 1st IF signals and 2nd LO signal (B2LO: 60.4 MHz) to convert the 1st IF to a 2nd IF.

The 1st IF signals from FI1 [main]/FI2 [sub] are converted to 10.85 MHz [main]/10.95 MHz [sub] 2nd IF signals at the 2nd mixer (Q11).

The 2nd IF signals are applied to the MAIN unit passing through D5 and D1 when the main band is selected, or D5 and D4 when the sub band is selected.

4-1-8 10 MHz IF CIRCUIT (MAIN UNIT)

The IF and AF circuits on the MAIN unit are commonly used for the UHF and VHF bands.

The 10 MHz IF circuit filters and amplifies the 10 MHz IF signals. The 10 MHz IF signals from the VHF 1st or UHF 2nd mixer circuit are applied to MCF (Monolithic Crystal Filter; FI2 [main]/FI6 [sub]) to suppress out-of-band signals.

The filtered signals are amplified at the IF amplifiers Q13 [main]/Q98 [sub]. These amplifiers have 20 dB gain.

When the SSB or CW mode is selected, the amplified signals are passed through 10 MHz IF filters (FI1 [main]/FI5 [sub]) or the optional CW narrow filter (main band only). The passed signals are amplified at IF amplifiers (Q60–Q62 [main]/Q77, Q100, Q101 [sub]) and then applied to the demodulator circuit (IC14 [main]/IC22 [sub]).

When the FM mode is selected the amplified signals from Q13 [main] or Q98 [sub] are applied to the FM IF ICs (IC11 [main]/IC13 [sub]). The entered signal is converted to a 455 kHz IF signal and detected to AF signals.

4-1-9 NOISE BLANKER CIRCUIT

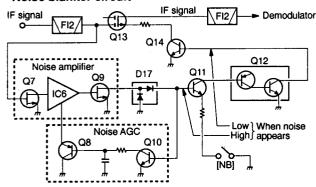
The noise blanker circuit detects pulse-type noise, then stops the IF amplifier operation. This circuit is designed for the main band only.

A portion of the signals from FI2 are amplified at the noise blanker amplifiers (Q7, IC6, Q9) and are detected at D17.

When pulse type noise appears and the [NB] switch is turned ON, the noise blanker switch (Q11, Q12) is turned ON, then the source of the IF amplifier (Q13) is open via Q14, to stop the Q13 function.

Q8 and Q10 function as an AGC circuit to reduce averaged noise. Therefore, the noise blanker function shuts off pulse-type noise only.

Noise blanker circuit



4-1-10 DEMODULATOR CIRCUIT (MAIN UNIT)

(1) FM mode

The 10 MHz IF signals are converted into 455 kHz IF signals in the FM IF IC (IC11 [main]/IC20 [sub]). The 455 kHz IF signals pass through the IF filter (FI13 [main]/FI4 [sub]) and are then converted into AF signals. The AF signals output from pin 9 are passed through or bypassed the high-pass filter (IC12a [main]/IC19a [sub]) and are then applied to the AF input mode selector switch (IC16c [main]/IC28b [sub]).

(2) SSB/CW modes

The 10 MHz IF signals from Q62 [main] or Q100 [sub] are demodulated into AF signals at the balanced mixer (IC14 [main]/IC22 [sub]). BFO signals are used for demodulation which are produced in the PLL unit for the main band and the crystal oscillator (Q79, X6) for the sub band.

BFO frequencies

MODE	for MAIN band	for SUB band
USB	10.8485 MHz	10.9485 MHz
LSB	10.8515 MHz	10.9515 MHz
CW	10.8483 MHz	10.9483 MHz

4-1-11 AF INPUT MODE SELECTOR SWITCH (MAIN UNIT)

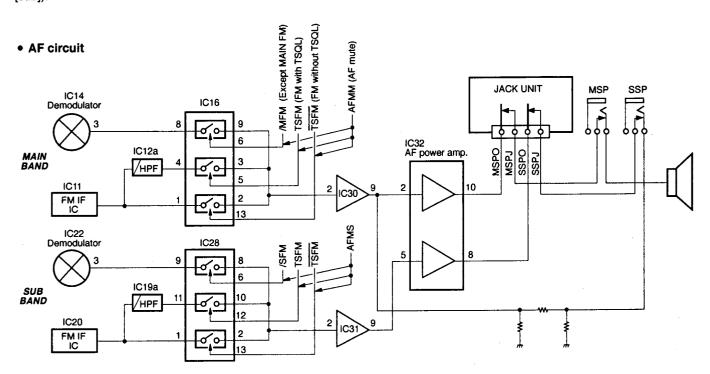
The AF signals from the demodulator circuit are applied to the AF input mode selector switch (IC16 [main], IC28 [sub]). IC16 (IC28) consists of 4 analog switches which are selected with a mode signal and the squelch control signal. The AF signal is output from IC16 (pins 2, 3, 9) for the main band and IC28 (pins 2, 8, 10) for the sub band; then applied to the AF circuit.

4-1-12 AF CIRCUIT (MAIN UNIT)

AF signals from the AF input mode selector switch (IC16 [main], IC28 [sub]) are amplified at the pre-amplifier (IC30 [main], IC31 [sub]). These main and sub bands audio are power-amplified at the stereo amplifier IC (IC32).

The amplified audio signals pass through the JACK unit, [MSP] jack, and are then applied to the speaker.

The sub band audio signals are fed back to the main band channel of the stereo amplifier IC (IC32) via an attenuator to mix both the main and sub bands audio.

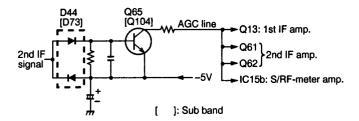


4-1-13 AGC CIRCUIT (MAIN UNIT)

The AGC (Automatic Gain Control) circuit reduces IF amplifier gain to keep the audio output at a constant level.

The 2nd IF signal from the IF amplifier (Q62 [main]/Q101 [sub]) is detected at the AGC detector (D44 [main]/D73 [sub]) and is then applied to the DC amplifier (Q65 [main]/Q104 [sub]).

When receiving strong signals, the detected voltage increases and the AGC voltage decreases via the DC amplifier (Q65 [main]/Q104 [sub]). As the AGC voltage is used for the bias voltage of the IF amplifiers (Q13, Q61, Q62 [main]/Q98, Q100, Q101 [sub]), the IF amplifier gain is decreased.



4-1-14 S-METER CIRCUIT (MAIN UNIT)

The S-meter circuit indicates the relative received signal strength while receiving by utilizing the AGC voltage which is changed depending on the received signal strength.

The AGC bias voltage is applied to a differential amplifier (IC15 pin 6 [main]/IC23 pin 2 [sub]) where the difference between AGC and reference voltages is detected.

The resulting S-meter signal is applied to the DISPLAY unit via the "MSM" line [main] or "SSM" line [SUB]. The full scale position is set by R253 [main]/R207 [sub].

The S-meter signal is also applied to the squelch circuit (IC15a pin 2).

4-1-15 SQUELCH CIRCUIT (MAIN UNIT)

(1) FM mode

A squelch circuit cuts out AF signals when no RF signal is received. By detecting noise components in the AF signals, the squelch circuit switches the AF mute switches.

Some noise components in the AF signal from IC11 pin 9 [main]/IC20 pin 9 [sub] are applied to an active filter section (IC4 pin 10 [main]/IC20 pin 10 [sub]) via the noise control circuit (IC13 pins 7, 9 [main]/IC21 pins 7, 9 [sub]).

The squelch level setting volume control (R1) on the VR unit adjusts the noise control circuit (IC13 · IC21/pin 7) input level.

(2) SSB/CW modes

The squelch circuit mutes audio output when the S-meter signal is lower than the [SQL] control setting level.

The S-meter signal from (IC15b pin 7 [main]/IC23a pin 1 [sub]) is applied to the comparator (IC15a pin 2 [main]/IC23b pin 6 [sub]) through D42 [main]/D71 [sub] to be compared with the threshold level set by the [SQL] control.

4-2 TRANSMITTER CIRCUITS

4-2-1 MICROPHONE AMPLIFIER CIRCUIT (DISPLAY UNIT AND MAIN UNIT)

The microphone amplifier circuit amplifies the microphone input signals and outputs the amplified signal to the FM modulation circuit or SSB modulation circuit.

The microphone amplifier circuit is commonly used for both FM (VHF/UHF) mode and SSB (VHF/UHF) mode.

Audio signals from the [MICROPHONE] connector are amplified at IC3. The amplified signals are then adjusted at the [MIC] control (R31) and amplified again at IC2a (MAIN unit).

(1) While in FM mode

The amplified signals from IC2a are applied to IC1b (pin 6) and pass through the microphone gain adjustment (R41). IC1b includes a low level amplifier with pre-emphasis and a limiter amplifier.

The output signals from IC1b (pin 7) pass through a splatter filter circuit (IC1a) and are adjusted for deviation at R29.

A subaudible tone encoder signal is amplified at the high-impedance input circuit (Q4) and is directly applied to the modulation circuit (X1, Q17, D22) without audio modulation interference.

(2) While in SSB mode

The amplified signals at IC2a are applied to the balanced modulator (IC7).

The balanced modulator converts the AF signal from the microphone amplifier to an IF signal with a BFO (Beat Frequency Oscillator) signal. The IF signal is shown in the table below.

MODE	Transmit IF signal
USB	10.8485 MHz
LSB	10.8515 MHz
CW	10.8491 MHz

IC7 is a double balanced mixer IC and outputs a double side band (DSB) signal with -60 dB carrier suppression. R156 and R158 adjust the balanced level of IC7 for maximum carrier suppression.

4-2-2 CW KEYING CIRCUIT

When keying is closed, the CW keying circuit (Q84) outputs "HIGH." This "HIGH" signal is converted to "LOW" at Q20–Q22 and is then applied to the PLL unit for BFO circuit control.

DC voltages (CW 9 V) upset the balance of the modulator IC (IC7). Therefore, the carrier signal is created when the BFO signal is applied to the modulator.

When the CW break-in function is activated, the emitter of Q83 is grounded, the keying signal from Q84 turns Q83 ON to inform the SEND control signal to the CPU.

Q80 is a CW side tone oscillator for generating an 800 Hz tone frequency. When CW key is closed, C307 is disconnected from the collector of Q80, so that Q80 activates.

4-2-3 TRANSMIT IF AMPLIFIER (MAIN UNIT)

In SSB or CW mode, the transmitter IF signals (USB: 10.8485 MHz, LSB: 10.8515 MHz, CW: 10.8491 MHz) pass through FI1 to suppress the unwanted sideband signals, then the signals are applied to the transmit IF amplifier (Q1).

In FM mode, the transmit IF signals bypass FI1 and are then applied to the transmit IF amplifier (Q1).

The optional CW narrow filter is not used in transmitting.

(1) When selecting the VHF band (RF-A UNIT)

The amplified signal from Q1 (MAIN unit) is applied to the RF-A unit via J1 and then mixed with the 1st LO signal (125.15 MHz–163.15 MHz) to be converted to the displayed frequency at the balanced mixer (Q1, Q2). The sub band is not transmitted.

(2) When selecting the UHF band (RF-B UNIT)

The amplified signal from Q1 (MAIN unit) is applied to the RF-B unit via J2 and then mixed with the 2st LO signal (60.4 MHz) to be converted to a 2nd transmit IF signal at Q1/Q2.

MODE	2nd Transmit IF signals
USB	71.2485 MHz
LSB	71.2515 MHz
CW	71.2491 MHz

The 2nd transmit IF signal is amplified at Q3 and is then converted to the displayed frequency at the double balanced mixer (IC3) with the 1st LO signal (348.75 MHz-388.75 MHz).

4-2-4 RF CIRCUIT (RF-A AND RF-B UNITS)

The RF circuit amplifies the displayed frequency signal for 45 W* of RF output power.

* 30 - 45W depends on band and mode.

(1) RF circuit for the VHF band (RF-A unit)

The displayed frequency signal converted at the balanced mixer (RF-A unit Q1, Q2) is applied to the bandpass filter (L3, C120, D3, C13–C15, L4, D4, C121, C16–C18, L5, D5, C19, C122) where unwanted frequencies are reduced in the VHF bands.

The filtered signal is then amplified at IC1 and Q4. The amplified signal is amplified to 800 mW at Q13 through the LO trap circuit (C36, L10, L11, C37) and is then applied to the PA-A unit.

(2) Power amplifier circuit for the VHF band (PA-A unit)

The signal from Q13 is amplified at the power amplifier (IC2) to obtain a stable 45 W of RF output power and then applied to the 144 MHz antenna connector via the low-pass filter.

(3) RF circuit for the UHF band (RF-B unit)

The displayed frequency signal converted at the double balanced mixer (RF-B unit IC3) is amplified at IC1 through the spurious filter (L36) where unwanted frequencies are reduced in the UHF bands.

The amplified signal is amplified to 200 mW at Q4/Q5 through the spurious filter (L37) and is then applied to the PA-B unit.

(4) Power amplifier circuit for the UHF band (PA-B unit)

The signal from Q5 is amplified to 4 or 5 W at the drive amplifier (IC3) through the low-pass filter circuit (RF-B unit L14, C38, C39) and attenuator (PA-B unit R13-R15).

The signal from IC3 is amplified at the power amplifier (IC1) to obtain a stable 40 W of RF output power.

4-2-5 ALC CIRCUIT (PA-A, PA-B AND MAIN UNITS)

The ALC (Automatic Level Control) circuit controls the gain of IF amplifiers in order for the transceiver to output a constant RF power set by the [PWR/COMP] switch even when the supplied voltage shifts, etc.

The RF power signal level is detected at D4–D7 (PA-A unit for VHF) or D4, D5 (PA-B unit for UHF) and applied to the MAIN unit as the "FORA" or "FORB" signals.

The "FORA (FORB)" voltage from the PA-A (PA-B) unit is applied to IC3a (pin 2). The "POCO" voltage is applied to IC3a (pin 3) as the reference voltage.

When the "FORA (FORB)" voltage exceeds the "POCO" voltage, ALC bias voltage from IC3a (pin 1) controls the IF amplifier (Q1). This adjusts the output power to the determined level by the [PWR/COMP] switch until the "FORA (FORB)" and "POCO" voltages are equalized.

The "FORA (FORB)" voltage is also applied to IC5a to obtain an RF meter signal. It passes through the meter switching circuit (IC4b DISPLAY unit) and is then applied to the S/RF meter.

The ALC voltage for data communication is directly applied to Q1 from the ALC socket (pin 8) through R289.

4-2-6 APC CIRCUIT (PA-A/B UNITS)

The APC (Automatic Power Control) circuit protects the power amplifiers on the PA-A/PA-B units from excessive current.

For the current APC, the power module current is obtained by differential voltages (AIC2: VHF/BIC2: UHF) which appear at both terminals of a 0.15 Ω resistor, R1/R12 (VHF) on the PA-A unit or R1/R16 on the PA-B unit.

The differential voltage is applied to the differential amplifier (IC4b pin 5: VHF/IC4b pin 3: UHF on the MAIN unit).

The amplified APC voltages are applied to the transmit IF amplifier Q1 and the ALC amplifier IC3b on the MAIN unit. They control the output power at the power module.

4-2-7 TEMPERATURE PROTECTION CIR-CUIT (DISPLAY AND PA-A/B UNITS)

Cooling fans (MF1) are activated during transmitting or if the temperature of the power modules exceeds the preset value.

While transmitting, Q26 and Q27 on the DISPLAY unit are turned ON, and provide a voltage "FANV" to MF1. The MF1 rotates at medium speed in this case.

A thermal switch (S1) is thermally-connected to the power module IC1 on the PA-B unit. When the power module temperature exceeds 90°C (194°F), S1 turns ON and provides a voltage for high speed rotation to MF1 via Q25 on the DISPLAY unit.

When the power module radiator on the PA-B unit temperature exceeds 40°C (104°F), S1 keeps turning Q24 and Q25 (DISPLAY unit) ON to rotate the cooling fans even when receiving.

4-3 PLL CIRCUITS (PLL UNIT)

The PLL unit contains 3 PLL circuits and 1 local oscillator. The VHF PLL and UHF PLL adopt Icom's new "I-loop PLL" to obtain very fast lock up times.

4-3-1 VHF PLL CIRCUITS

The oscillated signal at the VHF VCO circuit (Q1, D1–D3, D8) is buffer-amplified at Q2 and IC5. The amplified signal is divided by 8 at the prescaler (IC4) and is then applied to the DDS IC (IC1 pin 88).

The DDS IC generates digital signals using the entered signal, then compares it's phase with the reference frequency and outputs off phase components as pulse signals via pins 52, 53.

The output pulses are converted to DC voltages at the loop filter (IC2a) and are then applied to varactor diodes in the VCO circuit (D1-D3, D8).

The D/A converter (R15–R38), low-pass filter (C4–C10, L2–L4) and buffer amplifier (IC14) are connected to the DDS IC to convert the digitally oscillated signals into smooth analog signals.

4-3-2 UHF PLL CIRCUITS

The oscillated signal at the UHF VCO circuit (Q5, D4, D10) is buffer-amplified at Q6 and Q9. The amplified signal is divided by 8 at the prescaler (IC9) and is then applied to the DDS IC (IC6 pin 88).

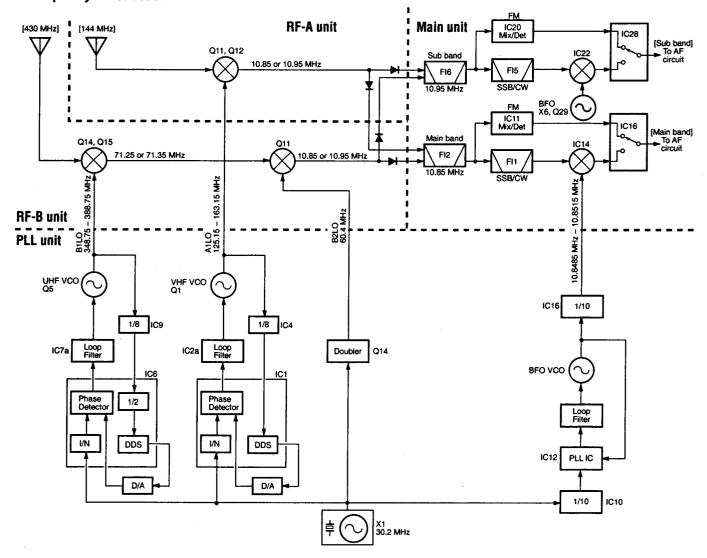
The DDS IC generates digital signals using the entered signal, then compares it's phase with the reference frequency and outputs off phase components as pulse signals via pins 52, 53.

The output pulses are converted to DC voltages at the loop filter (IC7a) and are then applied to varactor diodes in the VCO circuit (D4, D10).

4-3-3 BFO PLL CIRCUITS

The oscillated signal at the BFO VCO circuit (Q12, D5) is buffer-amplified at Q13 and Q16. The amplified signal is applied to PLL IC (IC12 pin 19) to detect on phase signals using the reference frequency.

• Frequency construction



The oscillated signal at the reference oscillator (X1) is divided by 10 at IC10 and is then applied to IC12 (pin 16) as a reference frequency.

The VCO oscillated signal is divided by 10 at the divider (IC16), buffer-amplified at Q20 and is then applied to the MAIN unit as the BFO frequency.

4-3-4 LOCAL OSCILLATOR CIRCUIT (REFERENCE OSCILLATOR)

The output of the reference oscillator (X1, 30.2 MHz) is used for: (1) the reference frequency of the VHF/UHF PLL circuits, (2) the reference frequency of BFO PLL circuits after being divided by 10, (3) the local frequency for the UHF receiver/transmitter circuits after being multiplied 2 times.

4-4 PORT ALLOCATIONS

4-4-1 CPU (DISPLAY UNIT)

Port name	Pin number	Description
ADCDAT	1	Input port for the FM deviation indicator. When this port receives below 1.3 V or above 1.7 V, the CPU detects the received signal as off center. The "CCTL" port (pin 24) outputs 300 msec. pulses to flash the RX indicator while the squelch is open.
RESET	9	Input port for the CPU reset signal. When receiving "LOW", CPU is reset.
BACKUP	11	Input port for the CPU backup signal. The CPU stores the selected data in RAM while receiving "LOW" pulses.
Mck	12	Outputs clock data to data expander ICs (DISPLAY unit IC11, MAIN unit IC8, IC10, IC24) and optional tone squelch units.
FSTB	13	Outputs a strobe signal to the data expander IC (DISPLAY unit IC11).
Mdat	14	Outputs serial data to data expander ICs (DISPLAY unit IC11, MAIN unit IC8, IC10, IC24) and optional tone squelch units.
OE	15	Outputs an enable signal to data expander ICs (MAIN unit IC8, IC10, IC24) and optional tone squelch units.
CIVR	16	Input port for a "UART" signal for CI-V control.
CIVT	17	Output port for a "UART" signal for CIV control.
CIVB	18	Input port for a "bus busy" signal for CI-V control.
MCST	19	Outputs a strobe signal to the data expander IC (MAIN unit IC10).
Dick	20	Input port for the dial clock signal.
DIUP	21	Input port for the dial up signal.
DIDN	22	Input port for the dial down signal.
DITS	23	Input port for the auto tuning step signal.
CCTL	24	Outputs the control signal of the main band RX indicator for squelch open and off-center receiving.

Port name	Pin	Description
BEEP	number 25	Outputs beep tone signals.
STVO	26	Outputs a strobe signal to an optional voice synthesizer unit.
MSST	32	Outputs a strobe signal to the data expander IC (MAIN unit IC24).
MMST	33	Outputs a strobe signal to the data expander IC (MAIN unit IC8).
KS1-KS7	36–42	Output ports of strobe signals for key matrix.
STBR	43	Outputs a strobe signal to the data expander IC (PLL unit IC13).
KR1-KR4	44-47	Input ports for key return signals.
OPTA	48	Input port for the tone decoder matched signal from an optional tone squelch unit.
ОРТВ	49	Input port for the tone decoder matched signal from an optional tone squelch unit.
SQSI	51	Input port for the sub band squelch signal. "LOW": squelch open.
STTA	52	Outputs a strobe signal to an optional tone squelch unit.
STTB	53	Outputs a strobe signal to an optional tone squelch unit.
МТ9А	54	Outputs a T9V control signal for the RF-A unit. "HIGH": while transmitting on the 144 MHz band.
MR9A	55	Outputs a R9V control signal for the RF-A unit. "HIGH": when 144 MHz band receiving is selected on the main band.
SR9A	56	Outputs a R9V control signal for the RF-A unit. "HIGH": when 144 MHz band receiving is selected on the sub band.
мт9В	57	Outputs a T9V control signal for the RF-B unit. "HIGH": while transmitting on the 430 MHz band.
MR9B	58	Outputs a R9V control signal for the RF-B unit. "HIGH": when 430 MHz band receiving is selected on the main band.
SR9B	59	Outputs a R9V control signal for the RF-B unit. "HIGH": when 430 MHz band receiving is selected on the sub band.
LCTF	60	Input port for the BFO PLL unlock signal. "LOW": when the PLL is unlocked.
LCTA	61	Input port for the VHF PLL unlock signal. "LOW": when the PLL is unlocked.
LCTB	62	Input port for the UHF PLL unlock signal. "LOW": when the PLL is unlocked.
STBF	63	Outputs a strobe signal to the PLL IC of the BFO PLL (PLL unit IC12).
STBA	64	Outputs a strobe signal to the DDS IC of the VHF PLL (PLL unit IC1).

Port name	Pin number	Description
STBB	65	Outputs a strobe signal to the DDS IC of the UHF PLL (PLL unit IC6).
ck	66	Outputs clock signals to DDS ICs and PLL IC (PLL unit IC1, IC6, IC12).
data	67	Outputs data to DDS ICs and PLL IC (PLL unit IC1, IC6, IC12).
SBTN	90	Outputs a tone signal for the subaudible tone encoder or 1750 Hz tone burst.
SEND	94	Input port for the transmit control signal. "LOW": while transmitting.
BUSY	95	Input port for an optional voice synthesizer active signal to reduce audio level while talking.
ADTSQ	96	Input port for detecting signals for the optional tone squelch unit installation condition. 2.18 – 2.72: when both A/B are installed. 2.72 – 3.31: when only B is installed. 3.31 – 3.78: when only A is installed. Other voltages: no unit is installed.
ADU/D	97	Input port for the microphone up/down signal. DN: 0 - 0.8 V; UP: 1.2 - 1.6 V
ADSFT	98	Input port for the position data of the [SHIFT] control.
ADRIT	99	Input port for the position data of the [RIT] control.
ADSSM	100	Input port for the S-meter signal for the sub band meter.

4-4-2 DATA EXPANDER IC (MAIN UNIT)

• IC8

Port name	Pin number	Description
MCWN	4	Outputs CW narrow filter selection signal. "HIGH": when CW narrow mode is selected.
MCW	5	Outputs CW 8V control signal. "HIGH": when CW or CW-narrow mode is selected on the main band.
MUSB MLSB	6, 7	Output SSB selection signal for the output power control. "HIGH": when USB or LSB mode is selected on the main band.
MFM	14	Outputs an FM 8V control signal. "HIGH": when FM mode is selected on the main band.
/MFM	13	Outputs 8V control signal except FM mode. "HIGH": when SSB or CW mode is selected on the main band.
TSFM	12	Outputs 8V control signal for FM with tone squelch. "HIGH": when FM mode with optional tone squelch is selected on the main band.
BKIN	11	Outputs full break-in control signal. "HIGH": when the full break-in function is turned ON.

• IC10

Port name	Pin number	Description
AFMM	4	Outputs an AF mute signal for the main band. "HIGH": during mute.
AFMS	5	Outputs an AF mute signal for the subband. "HIGH": during mute.
MONM	6	Outputs a squelch open signal for the main band for the monitor function. "HIGH": while monitor function activates.
MONS	7	Outputs a squelch open signal for the sub band for the monitor function. "HIGH": while monitor function activates.
SCAM	14	Outputs a scan control signal to control the AGC time constant characteristics. "HIGH": during scan.
AT8	13	Outputs a T9V control signal for the PA-A unit. "HIGH": when transmitting on the 144 MHz band.
R8	12	Outputs a R8V control signal. "HIGH": when receiving.
BT8	11	Outputs a T9V control signal for the PA-B unit. "HIGH": when transmitting on the 430 MHz band.

• IC24

Port name	Pin number	Description			
SUSB	4	Outputs USB control signal for BFO oscillator. "HIGH": when USB mode is selected on the sub band.			
SLSB	5	Outputs LSB control signal for BFO oscillator. "HIGH": when LSB mode is selected on the sub band.			
SFM	6	Outputs an FM 8V control signal. "HIGH": when FM mode is selected on the sub band.			
/SFM	7	Outputs 8V control signal except FM mode. "HIGH": when SSB or CW mode is selected on the sub band.			
MSC	13	Outputs main/sub switching signal for voice synthesizer and beep tone. "HIGH": when emitting the signal from the main band.			

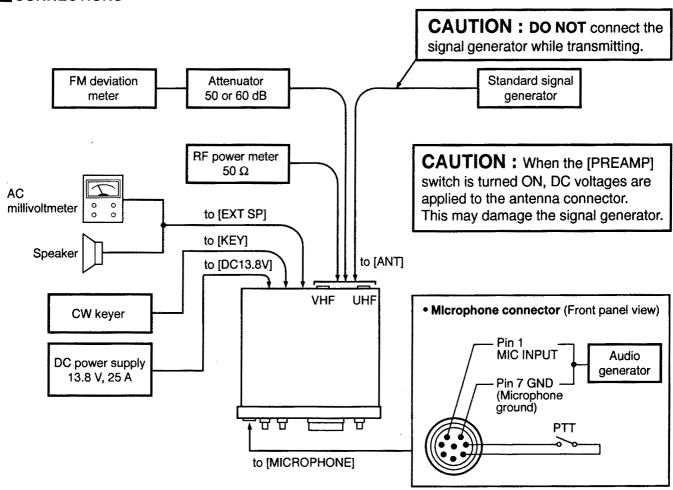
SECTION 5 ADJUSTMENT PROCEDURES

5-1 PREPARATION BEFORE SERVICING

REQUIRED TEST EQUIPMENT

EQUIPMENT	GRADE A	ND RANGE	EQUIPMENT	GRADE	AND RANGE	
DC power supply	Output voltage Current capacity	: 13.8 V DC : 25 A or more	Oscilloscope	Frequency range Measuring range	: DC-20 MHz : 0.01-10 V	
RF power meter	Measuring range	: 1–60 W	AC millivoltmeter	Measuring range	: 10 mV-10 V	
(terminated type)	Frequency range Impedance	: 120–460 MHz : 50 Ω	DC voltmeter	Input impedance	: 50 kΩ/V DC or better	
	SWR	: Less than 1.2 : 1	Ammeter	Measurement capability : 25 A		
Frequency counter	Frequency range Frequency accuracy	• •	Audio generator	Frequency range Output level	: 300-3000 Hz : 1-500 mV	
RF voltmeter	Sensitivity Frequency range	: 100 mV or better : 0.1–460 MHz	Attenuator	Power attenuation	: 40 or 50 dB	
rti volumetei	Measuring range	: 0.01–10 V		Capacity	: 60 W or more	
Digital multimeter	Input impedance	: 10 MΩ/DC or better	FM deviation meter	Frequency range Measuring range	: 120–460 MHz : 0 to ±5 kHz	
Standard signal generator (SSG)	Frequency range Output level	: 120–460 MHz : 0.1 µV–32 mV (–127 to –17 dBm)	External speaker	Impedance Max. input power	: 8 Ω : 5 W	
Sweep generator	Frequency range Sweep bandwidth Output impedance	: 120–460 MHz : At least 50 MHz : 50 Ω				

ECONNECTIONS

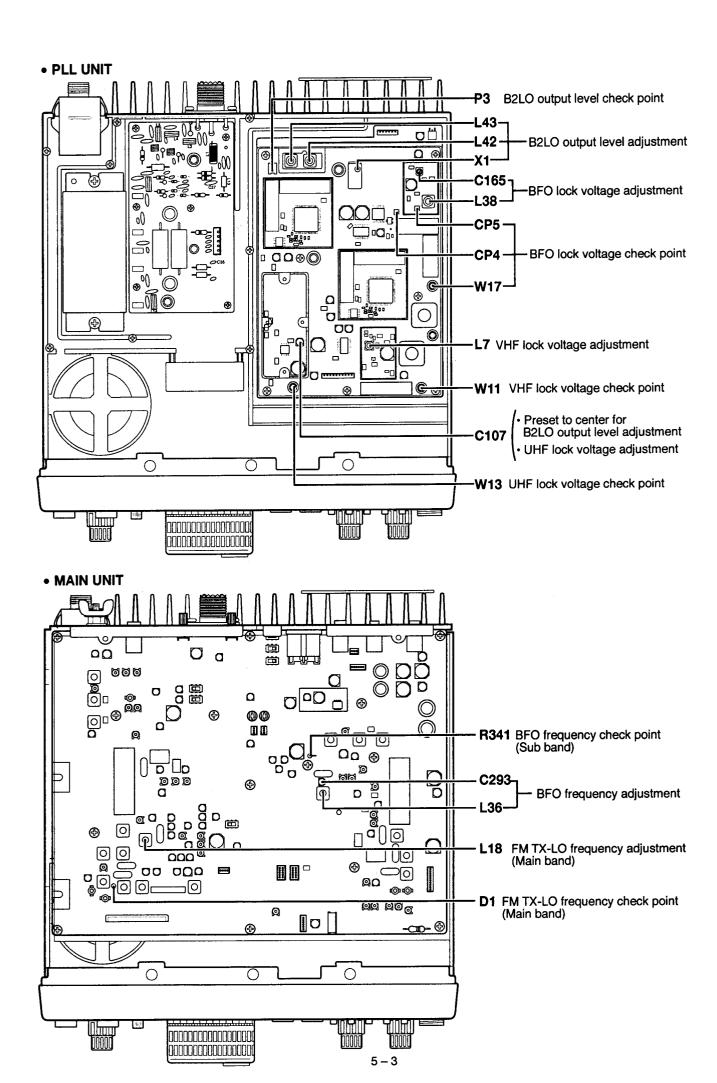


5-2 PLL ADJUSTMENT

ADJUSTMEN	т	ADJUSTMENT CONDITIONS	ME	ASUREMENT	VALUE	ADJUSTMENT POINT				
ADOOOTIMEN	•	A DOGG TIME OF THE OWN	UNIT	LOCATION		UNIT	ADJUST			
REFERENCE FREQUENCY (B2LO LEVEL)	1	Displayed frequency: 145.000 MHz Mode : FM Terminate P3 with a 50 Ω resistor. Receiving	PLL	Connect the RF voltmeter to P3.	Preset to center as shown below.	PLL	C107			
		Perform this adjustment 5 min or more after power ON.			Maximum level (-19 dBm ±3 dBm)		L42, L43			
	2	·		Connect the frequency counter to P3.	60.400 MHz		X1			
	3	After adjustment, remove the resistor from P3, then replace it to its previous position.								
BFO LOCK VOLTAGE	1	Displayed frequency: 145.000 MHz Mode : USB Terminate W17 with a 50 Ω resistor.	PLL	Connect the digital multimeter to CP4.	2.0 V DC	PLL	C165			
		● Receiving		Connect the RF voltmeter to CP5.	Maximum level (more than 0.35 Vrms)		L38			
				Connect the RF voltmeter to W17.	-11 dBm ±3 dBm		Verify			
	2	After confirmation, remove the resistor from	n W17, then r	eplace it to its previou	s position.					
VHF LOCK VOLTAGE	1	Displayed frequency: 145.000 MHz Mode : FM Terminate W11 with a 50 Ω resistor. Receiving	PLL	Connect the digital multimeter to W13.	3.0 V DC	PLL	L7			
	2	● Displayed frequency: 136.000 MHz			2.2 V ±0.5 V DC		Verify			
	3	● Displayed frequency: 174.000 MHz			6.2 V ±0.5 V DC					
	4	 Displayed frequency: 145.000 MHz Terminate W11 with a 50 Ω resistor. 		Connect the RF voltmeter to W11.	-10 dBm ±3 dBm					
	5	After confirmation, remove the resistor from W11, then replace it to its previous position.								
UHF LOCK VOLTAGE	1	■ Displayed frequency: 440.000 MHz ■ Mode: FM ■ Terminate W13 with a 50 Ω resistor. ■ Receiving	PLL	Connect the digital multimeter to W13.	4.0 V DC	PLL	C107			
	2	● Displayed frequency: 420.000 MHz			1.6 V ±0.5 V DC		Verify			
į	3	Displayed frequency: 460.000 MHz			6.5 V ±0.5 V DC					
	4	Displayed frequency: 440.000 MHz Terminate W11 with a 50 Ω resistor.		Connect the RF voltmeter to W13.	-9 dBm ±3 dBm ±150 Hz					
	5	After confirmation, remove the resistor from	n W13, then re	eplace it to its previous	s position.					

5-3 FREQUENCY ADJUSTMENT

ADJUSTMENT		ADJUSTMENT CONDITIONS		MEASUREMENT		VALUE	ADJUSTMENT POINT	
		7.5555		UNIT LOCATION			UNIT	ADJUST
BFO FREQUENCY (SUB BAND)	1	Displayed frequency: 145.00 Mode : LSB Receiving	00 MHz	MAIN	Connect the frequency counter to R341.	10.9515 MHz	MAIN	C293
	2	●Mode : USB ● Receiving				10.9485 MHz		L36
	3	● Mode : CW ● Receiving				10.9483 MHz ±150 Hz]	Verify
FM TX-LO FREQUENCY (MAIN BAND)	1	● Displayed frequency: 145.00 ● Mode : FM ● Transmitting	00 MHz	MAIN	Connect the frequency counter to D1.	10.850 MHz	MAIN	L18



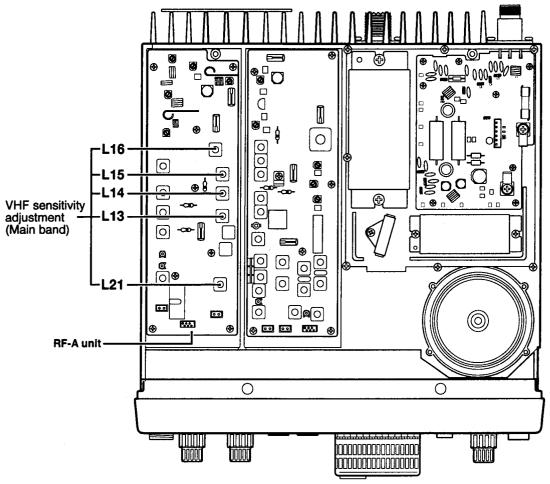
5-4 RECEIVER ADJUSTMENT

ADJUSTMENT		ADJUSTMENT CONDITIONS	MEASUREMENT		VALUE	ADJUSTMENT POINT	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•		UNIT	LOCATION	,	UNIT	ADJUST
VHF SENSITIVITY	1	Displayed frequency: 144.000 MHz Mode: FM	FRONT panel	S meter	S3	Connected SSG	Output level
(MAIN BAND)		●[ATT] : OFF [NB] : OFF [AGC] : ON (fast) [RIT] : OFF [SQL (MAIN)] : Max. CCW • Connect the SSG to the [VHF ANT] connector and set as: Modulation : 1 kHz Deviation : ±5 kHz			Maximum level	RF-A	Adjust in sequence L16, L15, L14, L13, L21
		• Receiving				MAIN	L11, L12, L13
	2	Mode : USB Connect the SSG to the [VHF ANT] connector and set as: Level : 0.1 μV* (−127 dBm) Modulation : OFF	Rear panel	Connect the AC millivoltmeter to the [EXT SP] juck with an 8Ω load.	Maximum audio output	MAIN	Adjust in sequence L25, L27, L28
VHF SENSITIVITY	1	◆ Displayed frequency: 144.000 MHz ◆ [SQL (SUB)]: Max. CCW	MAIN	Connect the digital voltmeter or oscillo-	approx. 2 V	Connected SSG	Output level
(SUB BAND)		Mode : FM Connect the SSG to the [VHF ANT] connector and set as: Modulation : 1 kHz Deviation : ±5 kHz Receiving		scope to CP2.	Maximum voltage	MAIN	Adjust in sequence L46, L47, L48
	2	Mode : USB Connect the SSG to the [VHF ANT] connector and set as: Level : 0.1 μV* (−127 dBm) Modulation : OFF		Connect the AC millivoltmeter to the [EXT SP] juck with an 8 Ω load.			Adjust in sequence L38, L40, L41
VHF TOTAL GAIN	1	●Mode :USB	Rear panel	millivoltmeter to the	approx. 1.5 kHz	Connected SSG	Output frequency
(MAIN BAND)		Connect the SSG to the [VHF ANT] connector and set as: Level : 0.1 μV* (–127 dBm) Modulation : OFF		[EXT SP] juck with an 8 Ω load.	1.0 V (0 dB)	Front panel	[AF] control
	2	● Set the as: Level : OFF			100 mV (-20 dB)	MAIN	R239
TOTAL GAIN (SUB BAND)	1	Displayed frequency: 144.000 MHz Mode : USB	Rear panel	Connect the AC millivoltmeter to the	approx. 1.5 kHz	Connected SSG	Output frequency
		Connect the SSG to the [VHF ANT] connector and set as: Level : 1 mV* (-47 dBm) Modulation : OFF		[EXT SP] juck with an 8 Ω load.	1.0 V (0 dB)	Front panel	[AF] control
	2	● Set the SSG as: Level : OFF			100 mV (-20 dB)	MAIN	R378

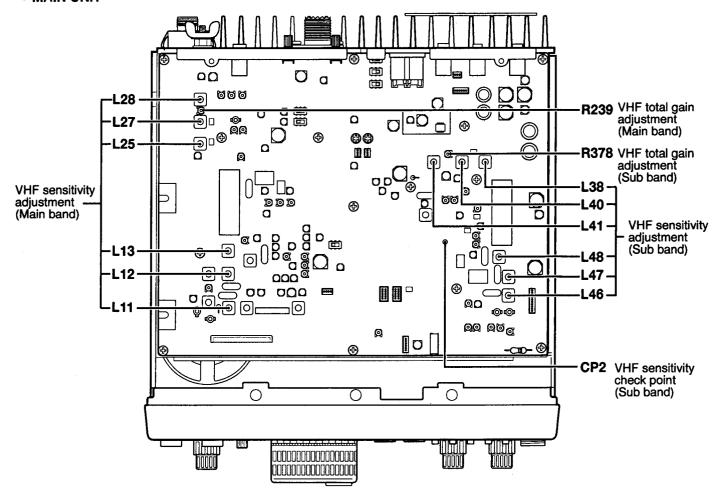
^{*} This output level of the standard signal generator (SSG) is indicated as SSG's open circuit.

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• RF-A AND RF-B UNITS



• MAIN UNIT

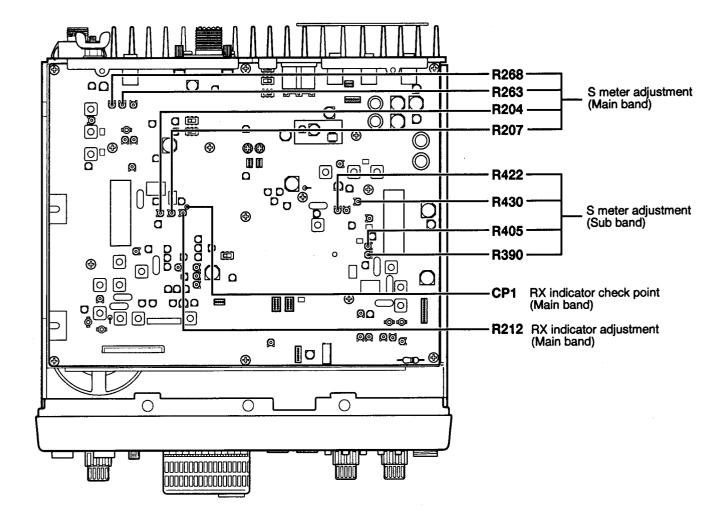


RECEIVER ADJUSTMENT (CONTINUED)

ADJUSTMEN	T	ADJUSTMENT CONDITIONS	ME	ASUREMENT	VALUE	ADJUSTMENT POINT	
ADUUGIMEN	•	A DOOR WELL OF THE PARTY OF THE	UNIT	LOCATION		UNIT	ADJUST
S-METER (MAIN BAND)		■ Displayed frequency: 145.000 MHz (EUR, SWE) 146.000 MHz (USA, AUS) ■ Mode : FM ■ Connect the SSG to the [VHF ANT] connector and set as: Level : 3.2 µV* (–97 dBm) Modulation : 1 kHz Deviation : ±3.5 kHz	Front panel	S meter	S9	MAIN	R204
	2	● Set the SSG as: Level : 100 μV* (–67 dBm)	:		S9 + 60 dB		R207
	3	●Mode : USB ●Set the SSG as: Level : 3.2 μV* (–97 dBm) Modulation : OFF			S9		R268
	4	● Set the SSG as: Level : 1.0 mV* (-47 dBm) Modulation : OFF			S9 + 60 dB		R263
S-METER (SUB BAND)		Displayed frequency: 145.000 MHz (EUR, SWE) 146.000 MHz (USA, AUS) Mode : FM Connect the SSG to the [VHF ANT] connector and set as: Level : 3.2 μV* (−97 dBm) Modulation: 1 kHz Deviation : ±3.5 kHz	Front panel	S meter	S9	MAIN	R390
	2	● Set the SSG as: Level : 100 μV* (-67 dBm)			S9 + 60 dB		R405
	3	Mode : USB Set the SSG as: Level : 3.2 μV* (–97 dBm) Modulation : OFF			S9		R430
:	4	● Set the SSG as: Level : 1.0 mV* (-47 dBm) Modulation : OFF			S9 + 60 dB		R422
RX INDICATOR (MAIN BAND)	•	Displayed frequency: 146.000 MHz Mode : FM Connect the SSG to the [VHF ANT] connector and set as: Level : 100 μV* (−67 dBm) Modulation: 1 kHz Deviation : ±3.5 kHz Receiving	MAIN	Connect the digital voltmeter to CP1.	1.5 V ±0.01 V	MAIN	R212
	2	• Set the SSG as: Level : OFF			1.5 V ±0.1 V		Verify

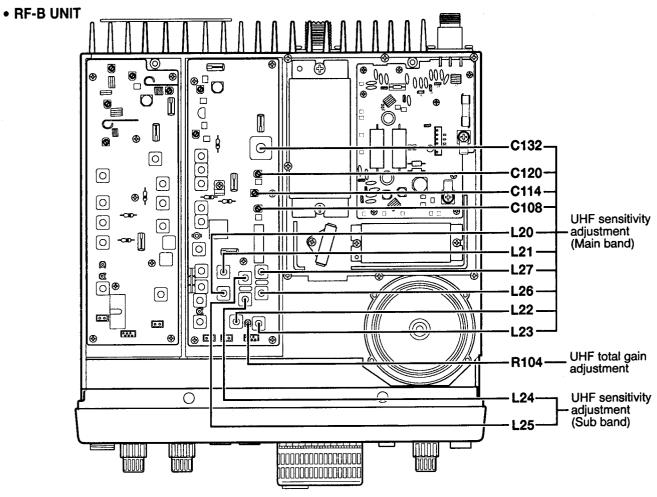
^{*} This output level of the standard signal generator (SSG) is indicated as SSG's open circuit.

• MAIN UNIT

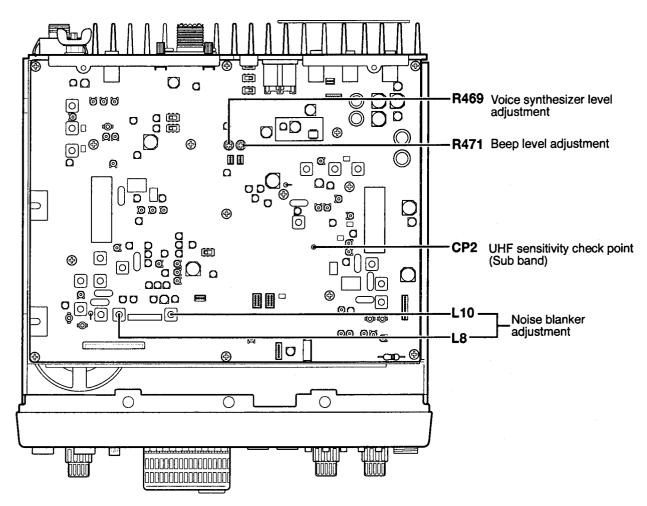


RECEIVER ADJUSTMENT (CONTINUED)

ADJUSTMEN	т	ADJUSTMENT CONDITIONS	ME	ASUREMENT	VALUE	ADJUSTMENT POINT	
ADJUGIMEN	•	ADOUGHMENT CONDITIONS	UNIT LOCATION			UNIT	ADJUST
UHF SENSITIVITY	1	Displayed frequency: 430.000 MHz (AUS, EUR, USA)	Front S meter panel	S3	Connected SSG	Output level	
(MAIN BAND)	anderschiftbilden and essential war von Grant services and services that debut desirials and an experiment of the services and the services are the services and the services and the services are the services ar	432.000 MHz (SWE) • Mode : FM • [ATT] : OFF [NB] : OFF [AGC] : ON (fast) [RIT] : OFF [SQL (MAIN)] : Max. CCW • Connect the SSG to the [UHF ANT] connector and set as: Modulation : 1 kHz Deviation : ±5 kHz • Receiving		,	Maximum level	RF-B	Adjust in sequence C132, C120, C114, C108, L27, L23, L26, L21, L20, L22
UHF SENSITIVITY	1	Displayed frequency: 430.000 MHz (AUS, EUR, USA)	MAIN	Connect the digital voltmeter to CP2.	approx. 2 V	Connected SSG	Output level
(SUB BAND)	Wysocialisticia was global habital the proprietation of the contract of the co	432.000 MHz (SWE) ● Mode : FM ● [ATT] : OFF [AGC] : ON (fast) [SQL (SUB)] : Max. CCW ● Connect the SSG to the [UHF ANT] connector and set as: Modulation : 1 kHz Deviation : ±5 kHz ● Receiving			Maximum voltage	RF-B	Adjust in sequence L25, L24
UHF TOTAL GAIN (MAIN BAND)	The state of the s	Displayed frequency: 435.000 MHz (EUR, SWE) 440.000 MHz (AUS, USA) Mode: FM Connect the SSG to the [UHF ANT] connector and set as: Level: 3.2 \(\mu \rangle \text{V}^* \) (-97 dBm) Modulation: 1 kHz Deviation: ±3.5 kHz	FRONT panel	S meter	S9	RF-B	R104
NOISE BLANKER	Asso.	Displayed frequency: 144.000 MHz Mode: USB [NB] switch: ON Receiving Connect the SSG to the [VHF ANT] connector and apply the pulse-type noise signals to the SSG's output.	Top cover	Speaker	Minimum pulse- type noise level.	MAIN	L8, L10
BEEP/VOICE SYNTHESIZER (option) LEVEL	1	Main band Receiving [AF] control : Center	Top cover	Speaker	Desired beep level. (default setting is at cen- ter position)	MAIN	R471 (Beep) R469 (voice synthesizer)



MAIN UNIT

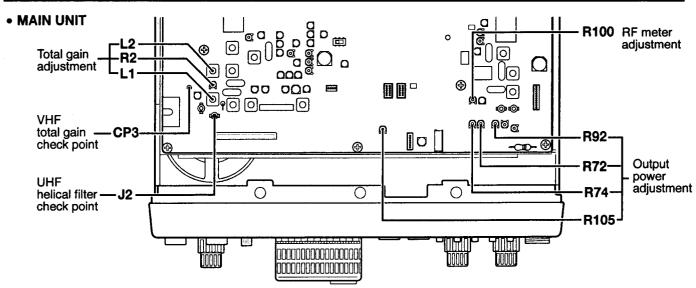


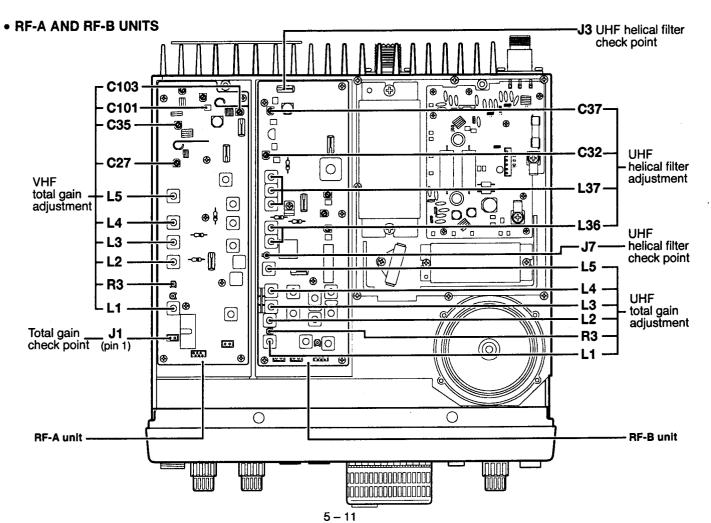
5-5 TRANSMITTER ADJUSTMENT

		AD HIGHERIT CONDITIONS	ME	SUREMENT	VALUE	ADJUSTMENT POINT	
ADJUSTMEN	1	ADJUSTMENT CONDITIONS	UNIT LOCATION		TALUE	UNIT	ADJUST
UHF HELICAL FILTER	1	Displayed frequency: 445.000 MHz (AUS, USA) 435.000 MHz (All other versions) Connect the sweep generator to RF–B unit J7 Sweep level : 71 mV (–10 dBm) Center frequency : Same as the displayed frequency Sweep bandwidth : 50 MHz Unplug MAIN unit J2 Transmitting	RF-B	Connect the oscillo- scope to J3 through the detector.	Adjust as follows: Max. Min. Max. Symmetrical waves	RF-B	L36, L37, C32, C37
TOTAL GAIN	2	Displayed frequency: 146.000 MHz (AUS, USA) 145.000 MHz (EUR, SWE) Mode: USB Connect the audio generator to the microphone connector and set as: 2 mV/1.5 kHz Transmitting	RF-A	Connect the RF volt- meter to J1 pin 1.	Maximum 18 mV (-22 dBm)	MAIN	L1, L2
VHF TOTAL GAIN	7	Displayed frequency: 146.000 MHz (AUS, USA) 145.000 MHz (EUR, SWE) Ground CP3 (MAIN unit) Mode : USB [MIC] control : Center Connect the audio generator to the microphone connector and set as: 2 mV/1.5 kHz Transmitting	Rear panel	Connect the RF power meter to the [144 MHz ANT] connector.	Maximum	RF-A	L1—L5, C27, C35, C101, C103
	2				18 W		R3
UHF TOTAL GAIN	1	Displayed frequency: 440.000 MHz (AUS, USA) 435.000 MHz (EUR, SWE) Ground CP3 (MAIN unit) Mode : USB Connect the audio generator to the microphone connector and set as: 2 mV/1.5 kHz Transmitting	Rear panel	Connect the RF power meter to the [430 MHz ANT] connector.	Maximum	RF-B	L1—L5
	2	-			16 W		R3
OUTPUT POWER	1	Displayed frequency: 148.000 MHz (AUS, USA) 146.000 MHz (EUR, SWE) Mode: FM [PWR/COMP] switch: High (no lighting) Transmitting	Rear panel	Connect the RF power meter to the [144 MHz ANT] connector.	45 W	MAIN	R72
	2	•[PWR/COMP] switch: Low (lights in red)			5.5 W		R74
	3	Repeat steps 1 and 2 several times.	L				
Continnue on	4	Mode: USB [PWR/COMP] switch: High (no lighting) [MIC] control: Center Connect the audio generator to the microphone connector and set as:	Rear panel	Connect the RF power meter to the [144 MHz ANT] connector.	35 W		R105
the next page ↗		20 mV/1.5 kHz					

TRANSMITTER ADJUSTMENT (CONTINUED)

ADJUSTMENT		ADJUSTMENT CONDITIONS	ME	ASUREMENT	VALUE	ADJUSTMENT POINT	
			UNIT LOCATION			UNIT	ADJUST
OUTPUT POWER	5	Displayed frequency: 430.000 MHz (AUS, EUR, USA) 432.000 MHz (SWE) Mode: FM PWR/COMP] switch: High (no lighting)		Connect the RF power meter to the [430 MHz ANT] connector.	40 W		R92
RF METER	1	Displayed frequency : Center of each band Mode : FM [PWR/COMP] switch : High (no lighting) Transmitting	Front panel	RF meter	S + 40 dB (90%)	MAIN	R100

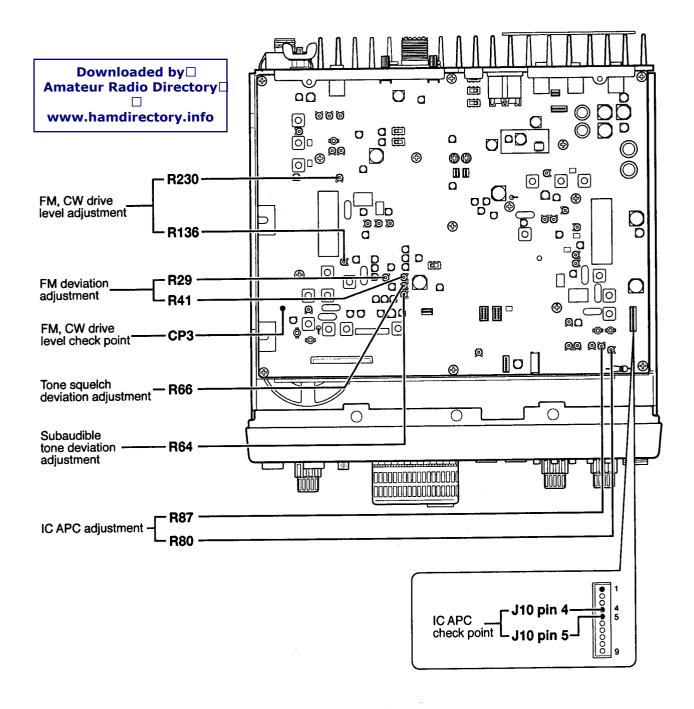




TRANSMITTER ADJUSTMENT (CONTINUED)

AD IUSTMEN	-	AD HISTMENT CON	IDITIONS	MEASUREMENT		VALUE	ADJUSTMENT POINT	
ADJUSTMEN'	'	ADJUSTMENT CON		UNIT	LOCATION		UNIT	ADJUST
FM, CW DRIVE LEVEL	1	Displayed frequency: 146.000 MHz (AUS, US) 145.000 MHz (EUR, SV) Mode: Connect the audio general phone connector and set and 20 mV/1.5 kHz Transmitting	VE) USB Itor to the micro-	MAIN	Connect the digital multi-meter to CP3.			Check the voltage
	2	Mode: FM Transmitting				Same value as step 1.	MAIN	R136
	3	Mode: CW Connect a keyer to the [KEY] j	ack and key down.			Same value as step 1.		R230
IC APC	1	●Mode :	tor to the micro-	Rear panel	Connect the RF power meter to the [144 MHz ANT] connector.	55 W	MAIN	R80
	2	● Displayed frequency : ● Ground J10 pin 5 (MAIN to	430.000 MHz unit)		Connect the ammeter between the DC power supply and IC-820H.	16 A	MAIN	R87
	3	After adjustment, replace J	3 and EP-1.					
FM DEVIATION	1	● Mode : ● [PWR/COMP] :	as: meter as:	Rear panel	Connect the FM deviation meter to the [144 MHz ANT] connector via the attenuator.	±4.8 kHz	MAIN	R29
	2	Set as the audio generator 1 kHz/2 mV	or as:			±3.5 kHz		R41
	3	Repeat steps 1 and 2 sever	ral times.					
TONE SQUELCH DEVIATION (option)	1	Mode : Tone squelch :	145.000 MHz FM ON 67 Hz	Rear panel	Connect the FM deviation meter to the [144 MHz ANT] connector via the attenuator.	±0.6 kHz	MAIN	R66
SUBAUDIBLE TONE DEVIA- TION (AUS, USA versions only)	1.	Mode : Subaudible tone encoder:	146.000 MHz FM ON 67 Hz	Rear panel	Connect the FM deviation meter to the [144 MHz ANT] connector via the attenuator.	±0.6 kHz	MAIN	R64
1750 Hz TONE BURST (EUR, SWE versions only)	1		145.000 MHz FM	Rear panel	Connect the FM deviation meter to the [144 MHz ANT] connector via the attenuator.	±3.5 kHz	MAIN	R64

• MAIN UNIT



SECTION 6 PARTS LIST

[FRONT UNIT]

REF. NO.	ORDER NO.	DESCRIPTION	
ME1	5510000420	METER	ME-34 SX1425
W9	7120000010	JUMPER	JPW 02A
J1	6510000290	CONNECTOR	8S-S-E
\$1 \$2	2260001580 2250000130	SWITCH ENCODER	JPZ2120-0101 (TV-3) SW-152 (EC24B50B0013B)
EP1	0910041880	FPC	B 4178

[DISP UNIT]

REF. NO.	ORDER NO.	DESCRIPTION	
IC1	1180001110	S.IC	PQ20VZ51
IC2	1140002190	s.ic	HD66100FH
IC3	1110003300	S.IC	M5282FP 70CD
IC4	1140003830	S.IC	TC4W66F(TE12L)
IC5	1180001070	S.IC	TA7805F(TE16L)
IC6	1110001550	S.IC	S-8054ALB-LM-T1
IC7	1130005720	S.IC	TC7W04F (TE12L)
IC8	1140004430	S.IC	HD8433875A02H
IC9	1130006800	S.IC	TC7W08F (TE12L)
IC10	1180001110	S.IC	PQ20VZ51
IC11	1130007700	S.IC	BU4094BCF-T1
Q1	1590001330	S.TRANSISTOR	DTA114EU T107
Q2	1530002890	S.TRANSISTOR	2SC4116-GR (TE85R)
Q3	1590001330	S.TRANSISTOR	DTA114EU T107
Q4	1590000430	S.TRANSISTOR	DTC144EU T107
Q5	1520000560	S.TRANSISTOR	2SB1123T-TD
Q6	1590000430	S.TRANSISTOR	DTC144EU T107
07	1520000580	S.TRANSISTOR	2SB1123T-TD
Q8	1590000430	S.TRANSISTOR	DTC144EU T107
Q9	1590000430	S.TRANSISTOR	DTC144EU T107
Q10	1590000430	S.TRANSISTOR	DTC144EU T107
Q11	1590000430	S.TRANSISTOR	DTC144EU T107
Q12	1590001000	S.TRANSISTOR	RN2427 (TE85R)
Q13	1590000430	S.TRANSISTOR	DTC144EU T107
Q14	1590001000	S.TRANSISTOR	RN2427 (TE85R)
Q15	1590000430	S.TRANSISTOR	DTC144EU T107
Q16	1590001000	S.TRANSISTOR	RN2427 (TE85R)
Q17	1590000430	S.TRANSISTOR	DTC144EU T107
Q18	1590001000	S.TRANSISTOR	RN2427 (TE85R)
Q19	1590000430	S.TRANSISTOR	DTC144EU T107
Q20	1590001000	S.TRANSISTOR	RN2427 (TE85R)
Q21	1590000430	S.TRANSISTOR	DTC144EU T107
Q22	1590001000	S.TRANSISTOR	RN2427 (TE85R)
Q23	1530003090	S.TRANSISTOR	2SC4213-B (TE85R)
Q24	1530002980	S.TRANSISTOR	2SC3650-TD
Q25	1590001000	S.TRANSISTOR	RN2427 (TE85R)
Q26	1590001000	S.TRANSISTOR	RN2427 (TE85R)
Q27	1590000430	S.TRANSISTOR	DTC144EU T107
Q29	1590000430	S.TRANSISTOR	DTC144EU T107
Q30	1530002690	S.TRANSISTOR	2SC4116-GR (TE85R)
Q31	1510000770	S.TRANSISTOR	2SA1586-GR (TE85R)
Q32	1530002690	S.TRANSISTOR	2SC4116-GR (TE85R)
Q33	1530002690	S.TRANSISTOR	2SC4116-GR (TE85R)
Q34	1590000680	S.TRANSISTOR	DTC114EU T107
Q35	1590000680	S.TRANSISTOR	DTC114EU T107
Q36	1590000430	S.TRANSISTOR	DTC144EU T107
Q37	1590000680	S.TRANSISTOR	DTC114EU T107
Q38	1590000680	S.TRANSISTOR	DTC114EU T107
Q39	1590000680	S.TRANSISTOR	DTC114EU T107
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[DISP UNIT]

DISF 0			
REF. NO.	ORDER NO.	DE	SCRIPTION
Q40 Q41	1590001330 1590000430	S.TRANSISTOR S.TRANSISTOR	DTA114EU T107 DTC144EU T107
CA+1	1390000430	3.11AH31310H	D1C144E0 (10)
Q42	1590000430	S.TRANSISTOR	DTC144EU T107
Q43	1590000680	S.TRANSISTOR	DTC114EU T107
D1	1750000390	S.DIODE	1SS353 TE-17
D3	1750000290	S.DIODE	1SS300 (TE85R)
D4	1750000290	S.DIODE	1SS300 (TE85R)
D5 D6	1750000290 1750000270	S.DIODE S.DIODE	1\$\$300 (TE85R) 1\$\$301 (TE85R)
D7	1750000270	S.DIODE	1SS301 (TE85R)
D8	1750000270	S.DIODE	1SS301 (TE85R)
D9 D10	1750000270 1750000270	S.DIODE S.DIODE	1SS301 (TE85R) 1SS301 (TE85R)
D11	1750000270	S.DIODE	1SS300 (TE85R)
D12	1750000390	S.DIODE	1SS353 TE-17
D13	1750000390	S.DIODE	1SS353 TE-17
D14 D15	1750000390 1750000390	S.DIODE S.DIODE	1SS353 TE-17 1SS353 TE-17
D16	1750000390	S.DIODE	1SS353 TE-17
D17	1750000390	S.DIODE	1SS353 TE-17
D18	1750000270	S.DIODE	1SS301 (TE85R)
D19 D20	1750000390 1750000390	S.DIODE S.DIODE	1\$\$353 TE-17 1\$\$353 TE-17
D21	1750000390	S.DIODE	1SS353 TE-17
D22	1750000390	S.DIODE	1SS353 TE-17
D23	1750000390	S.DIODE	[EUR], [AUS] only 1SS353 TE-17
DES	1730000000	0.DIODE	[USA], [AUS] only
D24	1750000390	S.DIODE	1SS353 TE-17
D25	1750000390	S.DIODE	[SWE] only 1SS353 TE-17
D25	1750000390	S.DIODE	1SS353 TE-17
D27	1750000390	S.DIODE	1SS353 TE-17
D28	1750000390	S.DIODE	1SS353 TE-17
D29 D30	1790000450 1750000270	S.DIODE S.DIODE	MA862(TX) 1SS301 (TE85R)
D31	1750000270	S.DIODE	1SS301 (TE85R)
D32	1750000270	S.DIODE	1SS301 (TE85R)
X1	6050008160	S.XTAL	CR-410 (9.8304MHz)
L1	6200003950	S.COIL	HF50ACC 322513-T
L2	6200003950	S.COIL	HF50ACC 322513-T
R1	7030000270	S.RESISTOR	MCR10EZHJ 120 Ω (121)
R2	7030000270	S.RESISTOR	ERJ3GEYJ 102 V (1 kQ)
R3	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R4	7030003690	S.RESISTOR	ERJ3GEYJ 124 V (120 kΩ)
R5 R6	7030000360 7030000360	S.RESISTOR S.RESISTOR	MCR10EZHJ 680 Ω (681) MCR10EZHJ 680 Ω (681)
R7	703000380	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R8	7030003690	S.RESISTOR	ERJ3GEYJ 124 V (120 kΩ)
R9	7030003700	S.RESISTOR	ERJ3GEYJ 154 V (150 kΩ)
R10 R11	7030003440 7030003550	S.RESISTOR S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 822 V (8.2 kΩ)
R12	7030003420	S.RESISTOR	ERJ3GEYJ 681 V (680 Ω)
R13	7030003750	S.RESISTOR	ERJ3GEYJ 394 V (390 kΩ)
R14 R15	7030003750 7030003730	S.RESISTOR S.RESISTOR	ERJ3GEYJ 394 V (390 kΩ) ERJ3GEYJ 274 V (270 kΩ)
R16	7030003730	S.RESISTOR	ERJ3GEYJ 154 V (270 kΩ)
R17	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
	7030004050	S.RESISTOR	[USA], [EUR], [AUS]
	, 030004030	J.nesis IUR	ERJ3GEYJ 1R0 V (1 Ω) [SWE]
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[DISP UNIT]

[DISP UNIT]

REF. NO.	ORDER NO.	0	ESCRIPTION
R18	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) [USA], [EUR], [AUS] only
R20	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R21	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
R22	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R23	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R24	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R25 R26	7030003640 7030003320	S.RESISTOR S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ) ERJ3GEYJ 101 V (100 Ω)
R27	7030003320	S.RESISTOR	ERJ3GEYJ 104 V (100 Ω)
R28	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R29	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R30	7030003650	S.RESISTOR	ERJ3GEYJ 583 V (56 kQ)
R31	7210002510	TRIMMER	EVU-FLAEC2 C14 (10KC)
R32	7030003510	S.RESISTOR	ERJ3GEYJ 392 V (3.9 kQ)
R33 R34	7030003440 7030003560	S.RESISTOR S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 103 V (10 kΩ)
R35	7030003300	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kQ)
R36	7030003880	S.RESISTOR	ERJ3GEYJ 104 V (100 KQ)
R37	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
R40	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R41	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kQ)
R42	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
R43 R44	7030003840	S.RESISTOR S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ) ERJ3GEYJ 104 V (100 kΩ)
R45	7030003580	S.RESISTOR	ERJ3GEYJ 103 V (10 kQ)
R46	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R48	7030003840	S.RESISTOR	ERJ3GEYJ 473 V (47 KΩ)
R54	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R55	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 KΩ)
R56	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 KQ)
R57 R58	7030003760	S.RESISTOR S.RESISTOR	ERJ3GEYJ 474 V (470 kΩ) ERJ3GEYJ 224 V (220 kΩ)
R59	7030003720	S.RESISTOR	ERJ3GEYJ 224 V (220 kQ)
R60	7030003800	S.RESISTOR	ERJ3GEYJ 105 V (1 MΩ)
R61	7030003540	S.RESISTOR	ERJ3GEYJ 682 V (6.8 kΩ)
R62	7030003620	S.RESISTOR	ERJ3GEYJ 333 V (33 kΩ)
R83	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R64	7030003590	S.RESISTOR S.RESISTOR	ERJ3GEYJ 183 V (18 kΩ) ERJ3GEYJ 473 V (47 kΩ)
R65 R66	7030003640 7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kQ)
R67	7030003840	S.RESISTOR	ERJ3GEYJ 225 V (2.2 MΩ)
R68	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 KΩ)
R69	7030003580	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R70	7030004050	S.RESISTOR	ERJ3GEYJ 1R0 V (1 Ω)
R71	7030003640	S.RESISTOR S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ) ERJ3GEYJ 473 V (47 kΩ)
R72 R73	7030003840 7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kQ)
R74	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kQ)
R75	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R76	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R77	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 KΩ)
R78	7030003840	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R79 R80	7030003440 7030003680	S.RESISTOR S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 104 V (100 kΩ)
1,00	, 55500566	J. ILUIO I OR	[USA], [EUR], [AUS]
	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 KΩ) [SWE]
R81	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kQ)
R82	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kQ)
R83	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R84 R85	7030003640 7030003640	S.RESISTOR S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ) ERJ3GEYJ 473 V (47 kΩ)
R86	7030003640	S.RESISTOR	ERJ3GEYJ 104 V (100 kQ)
R87	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R88	7510000870	S.THERMISTOR	NTCCF2012 3FH 332KC-T
R90	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R91	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R92	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R93 R94	7030003640 7030003640	S.RESISTOR S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ) ERJ3GEYJ 473 V (47 kΩ)
R95	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kQ)
R96	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 ΚΩ)
R97	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 KQ)
R98	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R99	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
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REF.	ORDER	DESCRIPTION		
NO.	NO.			
R100 R101	7030003380	S.RESISTOR TRIMMER	ERJ3GEYJ 331 V (330 Ω)	
R102	7310003700 70300035 8 0	S.RESISTOR	EVN-D2AA03 B23 (202) ERJ3GEYJ 103 V (10 kΩ)	
R103	7030000220	S.RESISTOR	MCR10EZHJ 47 Ω (470)	
R104	7030000220	S.RESISTOR	MCR10EZHJ 47 Ω (470)	
R105	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	
R108 R107	7030003840 7030003640	S.RESISTOR S.RESISTOR	ERJ3GEYJ 473 V (47 kQ) ERJ3GEYJ 473 V (47 kQ)	
R108	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 KΩ)	
R112	7030000380	S.RESISTOR	MCR10EZHJ 1 kΩ (102)	
R113 R114	7030000380 7030000380	S.RESISTOR S.RESISTOR	MCR10EZHJ 1 kΩ (102) MCR10EZHJ 1 kΩ (102)	
R115	7030000380	S.RESISTOR	MCR10EZHJ 1 kΩ (102)	
R116	7030000210	S.RESISTOR	MCR10EZHJ 39 Ω (390)	
R117	7030000210	S.RESISTOR	MCR10EZHJ 39 Ω (390)	
R118	7030003840	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	
C1	4030009090	S.CERAMIC	C3216 JB 1C 334K-T-A	
C2	4510004440	S.ELECTROLITIC	ECEV1HA010SR	
C3	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A	
C4 C5	4030006880 4030006900	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1E 103K-T-A	
C6	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C7	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C8 C9	4030006880 4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1H 472K-T-A	
C10	4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A	
C11	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C12	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C13 C14	4030006880 4510005370	S.CERAMIC S.ELECTROLITIC	C1608 JB 1H 472K-T-A ECEV1AA221P	
C15	4510005310	S.ELECTROLITIC	ECEV1CA220SR	
C16	4030009110	S.CERAMIC	C3216 JB 1C 474K-T-A	
C17 C18	4030006860 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 102K-T-A	
C19	4510005820	S.ELECTROLITIC	ECEV1CA101P	
C20	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A	
C21 C22	4030009110 4030009110	S.CERAMIC S.CERAMIC	C3218 JB 1C 474K-T-A C3218 JB 1C 474K-T-A	
C23	4030008850	S.CERAMIC	C1608 JB 1H 471K-T-A	
C24	4030010210	S.CERAMIC	C3216 JB 1C 105M-T-A	
C25 C26	4030006900 4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1E 103K-T-A C1608 JB 1H 472K-T-A	
C27	4030006860	S.CERAMIC	C1808 JB 1H 102K-T-A	
C28	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
C29	4030008860	S.CERAMIC	C1808 JB 1H 102K-T-A	
C30 C31	4030006860 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 102K-T-A	
C32	4030008860	S.CERAMIC	C1808 JB 1H 102K-T-A	
C33	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
C34 C35	4510004630 4030006880	S.ELECTROLITIC S.CERAMIC	ECEV1CA100SR C1608 JB 1H 472K-T-A	
C36	4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A	
C37	4510004830	S.ELECTROLITIC	ECEV1CA100SR	
C38	4030006880 4510004540	S.CERAMIC	C1608 JB 1H 472K-T-A	
C39 C40	4510004540 4030006880	S.ELECTROLITIC S.CERAMIC	ECEV0JA470SR C1608 JB 1H 472K-T-A	
C41	4510004540	S.ELECTROLITIC	ECEVOJA470SR	
C42	4030009000	S.CERAMIC	C2012 JB 1C 224K-T-A	
C43 C44	4030007020 4030007020	S.CERAMIC S.CERAMIC	C1608 CH 1H 120J-T-A C1608 CH 1H 120J-T-A	
C45	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A	
C48	4030009110	S.CERAMIC	C3216 JB 1C 474K-T-A	
C47 C48	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A	
C48	4030006900 4030006900	S.CERAMIC S.CERAMIC	C1608 JB 1E 103K-T-A C1608 JB 1E 103K-T-A	
C50	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C51	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C52 C53	4030006880 4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1H 472K-T-A	
C54	4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A	
C55	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C56 C57	4030006880 4030006900	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1E 103K-T-A	
C57	4030008900	S.CERAMIC S.CERAMIC	C1608 JB 1E 103K-T-A	

[DISP UNIT]

[5101 01	DISP UNIT			
REF.	ORDER	D	ESCRIPTION	
NO.	NO.		ESCRIFTION	
C59	4030010210	S.CERAMIC	C3216 JB 1C 105M-T-A	
C60	4510004630	S.ELECTROLITIC		
C61	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A	
C62	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A	
C63	4030008960	S.CERAMIC	C2012 JB 1C 104K-T-A	
C64	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C85	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A	
C66	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A	
C67	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C68	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C69	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
C70	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
C71	4510004630	S.ELECTROLITIC		
C72	4030006860	S.CERAMIC	C1808 JB 1H 102K-T-A	
i	1	1		
BT1	3020000110	LITHIUM	CR2032	
B''	3020000110	LITHIOM	Chausa	
ne.	5080000330	LAMP	HRS-7219A-RE	
DS1 DS2	5080000330	LAMP	HRS-7219A-RE	
	5080000330	LAMP	HRS-7219A-RE	
DS3	5080000330	LAMP	HRS-7219A-RE	
DS4 DS5	5040001830	LED	VRBG3349S	
DS6	5040001830	LED	BG3889S	
DS6 DS7	5030001000	LCD	FTD-12525AAH	
יפט	3030001000	100	F10-123230011	
•				
W ₁	7120000380	JUMPER	JPW 01 R-01	
W ₂	7120000380	JUMPER	JPW 01 R-01	
W3	7030003860	S.JUMPER	ERJ3GE JPW V	
W4	8900004830	CABLE	OPC-469	
W5	8900004830	CABLE	OPC-467	
W6	8900004840	CABLE	OPC-470	
W7	8900004850	CABLE	OPC-471	
W8	8900004850	CABLE	OPC-471	
W9	8900004850	CABLE	OPC-471	
W10	8900004830	CABLE	OPC-468	
** 10	000004020	CABLE	00-400	
]			
J1	6510007170	CONNECTOR	PI28A-03M	
J2	6510007170	CONNECTOR	PI28A-03M	
J3	6510016810	S.CONNECTOR	IMSA-9611S-05Y900	
J4	6510016810	S.CONNECTOR	IMSA-9611S-05Y900	
J5	6510016810	S.CONNECTOR	IMSA-9611S-05Y900	
J7	6510018520	S.CONNECTOR	00 6208 515 210 000	
J8	6510016870	S.CONNECTOR	08FPZ-SM-TF	
J9	6510007170	CONNECTOR	PI28A-03M	
J10	6510007110	CONNECTOR	PI28A-10M	
J13	6510018500	S.CONNECTOR	00 6208 507 110 000	
J14	6510003390	CONNECTOR	B03B-EH-S	
J15	6510015560	S.CONNECTOR	4-175638-6	
J16	6510018510	S.CONNECTOR	00 6208 512 210 000	
J17	6510008370	CONNECTOR	BBH-1	
S1	2230000930	SWITCH	ESB-64805	
S2	2230000930	SWITCH	ESB-64805	
S3	2230000930	SWITCH	ESB-64805	
S4	2230000930	SWITCH	ESB-64805	
S5	2230000930	SWITCH	ESB-64805	
S6	2230000920	SWITCH	ESB-64544	
S9	2260000680	SWITCH	SKHHBV011A	
S10	2260000680	SWITCH	SKHHBV011A	
S11	2260000680	SWITCH	SKHHBV011A	
S12	2260000840	SWITCH	SKHHAN185A	
S13	2260000840	SWITCH	SKHHAN165A	
	0040040075	DOD	B acces	
EP1 EP2	0910040275 8930031220	PCB LCD CONTACT	B 3996E SRCN-1424 SSW	
[[]	0030031220	LOD CONTACT	311011-1424 3311	
1				
1				
1				

[SW-A UNIT]

REF. NO.	ORDER NO.	C	DESCRIPTION
D1	1750000290	S.DIODE	1SS300 (TE85R)
D2	1750000290	S.DIODE	1SS300 (TE85R)
D3	1750000290	S.DIODE	1SS300 (TE85R)
D4	1750000290	S.DIODE	1SS300 (TE85R)
R1	7030003410	S.RESISTOR	ERJ3GEYJ 561 V (560 Ω)
R2	7030003410	S.RESISTOR	ERJ3GEYJ 561 V (560 Ω)
R3	7030003410	S.RESISTOR	ERJ3GEYJ 561 V (560 Ω)
R4	7030003410	S.RESISTOR	ERJ3GEYJ 561 V (560 Ω)
R5	7030003370	S.RESISTOR	ERJ3GEYJ 271 V (270 Ω)
R6	7030003410	S.RESISTOR	ERJ3GEYJ 561 V (560 Ω)
DS1	5040001780	S.LED	SEC 1601C
DS2	5040001780	S.LED	SEC 1601C
DS3	5040001780	S.LED	SEC 1601C
DS4	5040001780	S.LED	SEC 1601C
DS5	5040001870	S.LED	SEC 2462C
J1	6510016860	S.CONNECTOR	7-175643-6
S1	2260002100	s.switch	HKW0629-01-031
S2	2280002100	S.SWITCH	HKW0629-01-031
S3	2260002100	\$.SWITCH	HKW0629-01-031
S4	2260002100	S.SWITCH	HKW0629-01-031
S5	2260002100	S.SWITCH	HKW0629-01-031
S6	2260002100	S.SWITCH	HKW0629-01-031
S7	2260002100	S.SWITCH	HKW0629-01-031
S8	2260002100	S.SWITCH	HKW0629-01-031
EP1	0910040282	РСВ	B 3997B

[SW-B UNIT]

REF. NO.	ORDER NO.	C	DESCRIPTION
IC1	1130007040	S.IC	TC7W32F(TE12L)
IC2	1130002660	s.ic	μPD4030BG-T1
IC3	1130003710	S.IC	TC4S71F (TE85R)
IC4	1130007390	S.IC	TC7W02F(TE12L)
IC5	1130007390	S.IC	TC7W02F(TE12L)
D1	1750000290	S.DIODE	1SS300 (TE85R)
D2	1750000290	S.DIODE	1SS300 (TE85R)
R1 R2 R3 R4 R5 R6 R7 R8 R9 R10	7030003680 7030003720 7030003680 7030003580 7030003580 7030003600 7030003780 7030003780 7030003800 7030003580	S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 224 V (220 kΩ) ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 105 V (1 MΩ) ERJ3GEYJ 153 V (15 kΩ) ERJ3GEYJ 223 V (22 kΩ) ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 104 V (220 kΩ) ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 105 V (1 MΩ) ERJ3GEYJ 105 V (1 MΩ) ERJ3GEYJ 105 V (15 kΩ)
C1 C2 C3 C4 C5 C6 C7 C8	4030006860 4030006860 4030006860 4030006860 4030006860 4030006900 4030006900 4030006900	S.CERAMIC S.CERAMIC S.CERAMIC S.CERAMIC S.CERAMIC S.CERAMIC S.CERAMIC S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1E 103K-T-A C1608 JB 1E 103K-T-A C1608 JB 1E 103K-T-A C1608 JB 1E 103K-T-A

[SW-B UNIT]

REF. NO.	ORDER NO.	DESCRIPTION	
C10	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A
J1	6510016880	S.CONNECTOR	12FPZ-SM-TF
S1	2260002100	s.switch	HKW0829-01-031
S2	2260002100	S.SWITCH	HKW0629-01-031
S3	2260002100	s.switch	HKW0629-01-031
S4	2260002100	S.SWITCH	HKW0629-01-031
EP1	0910040292	РСВ	B 3998B

[VR UNIT]

REF. NO.	ORDER NO.	DESCRIPTION	
R1	7210002410	VARIABLE	RV-285 (RK0972210) 10KBX2
R2	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
J1	6510016810	S.CONNECTOR	IMSA-9611S-05Y900
EP1	0910040303	РСВ	B 3999C

[RIT UNIT]

REF. NO. R1	ORDER NO. 7210002420	DESCRIPTION	
		VARIABLE	RV-286
R2	7030004050	S.RESISTOR	(RK0972210) 10KBX2 ERJ3GEYJ 1R0 V (1 Ω)
J1	6510016810	S.CONNECTOR	IMSA-9611S-05Y900
EP1	0910042460	PCB	B 4244

[JACK UNIT]

REF. NO.	ORDER NO.	DESCRIPTION	
R1	7030000300	S.RESISTOR	MCR10EZHJ 220 Q (221)
R2	7030000300	S.RESISTOR	MCR10EZHJ 220 Q (221)
R3	7030000300	S.RESISTOR	MCR10EZHJ 220 Ω (221)
R4	7030000300	S.RESISTOR	MCR10EZHJ 220 Ω (221)
J1	6450000951	CONNECTOR	HLJ4815-01-020
EP1	0910040321	PCB	B 4001A

[PLL UNIT]

REF. NO.	ORDER NO.		DESCRIPTION
IC1	1140003641	S.IC	SC-1246
IC2	1110001900	S.IC	μPC4570G2-T1
IC4	1110003270	S.IC	MB511PF-G-BND
IC5	1110003310	S.IC	μPC1688G-T1
IC6	1140003641	S.IC	SC-1246
IC7	1110001900	S.IC	μPC4570G2-T1
IC9	1110003270	S.IC	MB511PF-G-BND
IC10	1120002450	S.IC	HD74LS90FP-TL

[PLL UNIT]

PLL UNIT]				
REF.	ORDER	D	ESCRIPTION	
NO.	NO.			
IC11	1180001070	S.IC	TA7805F(TE16L)	
IC12	1130007810	S.IC	μPD3140GS-E1 (DS8)	
IC13	1130007700	S.IC	BU4094BCF-T1	
IC14	1130003830	S.IC	TC7S04F (TE85R)	
IC15 IC16	1130003830 1110003400	S.IC IC	TC7S04F (TE85R) M54460L	
1010	1110003400	10	111344002	
Q1 Q2	1560000650 1530002920	S.FET S.TRANSISTOR	2SK1577-2-T7 2SC4226-T2 R25	
Q3	1590001330	S.TRANSISTOR	DTA114EU T107	
Q4	1530002600	S.TRANSISTOR	2SC4215-O (TE85R)	
Q5	1560000650	S.FET	2SK1577-2-T7	
Q6 Q7	1530002920 1590001330	S.TRANSISTOR S.TRANSISTOR	2SC4228-T2 R25 DTA114EU T107	
Q8	1530001330	S.TRANSISTOR	2SC4215-O (TE85R)	
Q9	1560000650	S.FET	2SK1577-2-T7	
Q10	1530002600	S.TRANSISTOR	2SC4215-O (TE85R)	
Q11	1530002600	S.TRANSISTOR	2SC4215-O (TE85R)	
Q12 Q13	1560000330 1530002600	S.FET S.TRANSISTOR	2SK210-GR (TE85R) 2SC4215-O (TE85R)	
Q13 Q14	1530002600	S.TRANSISTOR	2SC4215-0 (TE85R)	
Q15	1590000430	S.TRANSISTOR	DTC144EU T107	
Q16	1530002600	S.TRANSISTOR	2SC4215-O (TE85R)	
Q17	1590001330	S.TRANSISTOR S.TRANSISTOR	DTA114EU T107 DTA114EU T107	
Q18 Q19	1590001330 1530002600	S.TRANSISTOR	2SC4215-0 (TE85R)	
Q20	1530002600	S.TRANSISTOR	2SC4215-O (TE85R)	
Q21	1530002690	S.TRANSISTOR	2SC4116-GR (TE85R)	
Q22	1560000400	S.FET	2\$K536-TA	
Q23	1530002050	S.TRANSISTOR	2\$C3881-TA	
D1	1720000220	S.VARICAP	1SV166-T2B	
D2	1720000220	S.VARICAP	1SV166-T2B	
D3 D4	1720000220 1790000540	S.VARICAP S.VARICAP	1\$V166-T2B MA338(TX)	
D5	1790000540	S.VARICAP	MA338(TX)	
D6	1750000270	S.DIODE	1\$\$301 (TE85R)	
D8	1720000220	S.VARICAP	1SV166-T2B	
D9 D10	1790000820 1790000540	S.DIODE S.VARICAP	MA77(TW) MA338(TX)	
D11	1750000340	S.DIODE	1SV237 (TE85R)	
D12	1750000020	S.DIODE	1SS184 (TE85R)	
X1	6050008710	XTAL	CR-452 TCXO 30.200MHz	
L1	6200003330	S.COIL	NL 322522T-1R0J-3	
L2	6200003150	S.COIL	NL 322522T-180J	
L3	8200001710	S.COIL S.COIL	NL 322522T-220J NL 322522T-270J	
L4 L5	6200003160 6200001830	S.COIL S.COIL	NL 322522T-270J NL 322522T-100J	
L6	6200003260	S.COIL	NL 322522T-101J	
L7	6130002820	COIL	LB-319	
L8	6200002980	S.COIL	NL 322522T-R56J-3	
L9 L10	6200003260 6200003000	S.COIL S.COIL	NL 322522T-101J NL 322522T-R22J-3	
L11	6200003330	S.COIL	NL 322522T-1R0J-3	
L12	6200004030	S.COIL	NL 322522T-047J	
L13	6180002980	S.COIL	NL 322522T-056J	
L14 L15	6180002980 6200003330	S.COIL S.COIL	NL 322522T-056J NL 322522T-1R0J-3	
L18	6200003330	S.COIL	NL 322522T-1R0J-3	
L17	6200003330	S.COIL	NL 322522T-1R0J-3	
L18	6200003150	S.COIL	NL 322522T-180J	
L19 L20	6200001710 6200003160	S.COIL S.COIL	NL 322522T-220J NL 322522T-270J	
L20 L21	6200003180	S.COIL S.COIL	NL 322522T-270J NL 322522T-1R0J-3	
L22	6200003330	S.COIL	NL 322522T-1R0J-3	
L23	6200003330	S.COIL	NL 322522T-1R0J-3	
L24 L25	6200003330 6200004010	S.COIL S.COIL	NL 322522T-1R0J-3 NL 322522T-033J	
L26	6200004000	S.COIL	NL 322522T-022K	
L27	6200004000	S.COIL	NL 322522T-022K	
				

[PLL UNIT]

L29 L30 L31 L32 L33 L34 L35 L36 L37 L38 L39 L40 L41 L42 L43 L44 L45	6200003330 6200001030 6200001030 6200001830 620000330 6200001830 6200002830 6200003320 6200003320 6200003320 620000330 6200003040 6200003050 6150000990 6150000990 6200001830 6200001830	S.COIL COIL S.COIL	NL 322522T-1R0J-3 NL 322522T-012K NL 322522T-012K NL 322522T-100J NL 322522T-100J NL 322522T-100J NL 322522T-100J LQN 1A 84NJ04 NL 322522T-3R3J-3 NL 322522T-1R0J-3 LS-112 NL 322522T-100J NL 322522T-100J NL 322522T-188J-3 NL 322522T-R88J-3 NL 322522T-R88J-3 NL 322522T-R88J-3		R42 R43 R44 R45 R46 R48 R49 R50 R51 R52	7030003560 7030003360 7030003360 7030003480 7030003440 7030003840 703000380 7030003360 7030003320	S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 221 V (220 Ω) ERJ3GEYJ 221 V (220 Ω) ERJ3GEYJ 222 V (2.2 kΩ) ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 225 V (2.2 kΩ) ERJ3GEYJ 470 V (47 Ω) ERJ3GEYJ 221 V (220 Ω)
L29 L30 L31 L32 L33 L34 L35 L36 L37 L38 L39 L40 L41 L42 L43 L44 L45	620001030 620001030 6200001830 6200003030 6200001830 6200001830 6200002830 6200003320 6200003320 620000330 6200001830 6200003050 6200003050 6150000990 6150000990 6200001830	S.COIL COIL S.COIL S.COIL	NL 322522T-012K NL 322522T-012K NL 322522T-100J NL 322522T-100J NL 322522T-100J NL 322522T-100J LQN 1A 84NJ04 NL 322522T-3R3J-3 NL 322522T-1R0J-3 LS-112 NL 322522T-100J NL 322522T-100J NL 322522T-100J NL 322522T-188J-3		R43 R44 R45 R46 R48 R49 R50 R51	7030003380 7030003380 7030003480 7030003440 7030003840 7030003280 7030003380	S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR	ERJ3GEYJ 221 V (220 Ω) ERJ3GEYJ 221 V (220 Ω) ERJ3GEYJ 222 V (2.2 kΩ) ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 225 V (2.2 MΩ) ERJ3GEYJ 470 V (47 Ω)
L30 L31 L32 L33 L34 L35 L36 L37 L38 L39 L40 L41 L42 L43 L44 L45	6200001030 6200001830 6200003030 6200001830 6200001830 6200002830 6200003330 6150000970 6200003340 6200003050 6150000990 6150000990 6200001830	S.COIL	NL 322522T-012K NL 322522T-100J NL 322522T-R47J-3 NL 322522T-100J NL 322522T-100J LQN 1A 84NJ04 NL 322522T-3R3J-3 NL 322522T-1R0J-3 LS-112 NL 322522T-100J NL 322522T-100J NL 322522T-100J		R44 R45 R46 R48 R49 R50 R51	7030003380 7030003480 7030003440 7030003840 7030003280 7030003360	S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR	ERJ3GEYJ 221 V (220 Ω) ERJ3GEYJ 222 V (2.2 kΩ) ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 225 V (2.2 MΩ) ERJ3GEYJ 470 V (47 Ω)
L31 L32 L33 L34 L35 L36 L37 L38 L39 L40 L41 L42 L43 L44 L45 L45	6200001830 6200003030 6200001830 6200001830 6200002830 6200003320 6200003330 6150000970 6200003040 6200003050 6150000990 6150000990 6200001830	S.COIL	NL 322522T-100J NL 322522T-R47J-3 NL 322522T-100J NL 322522T-100J LQN 1A 84NJ04 NL 322522T-3R3J-3 NL 322522T-1R0J-3 LS-112 NL 322522T-100J NL 322522T-100J NL 322522T-R68J-3		R45 R46 R48 R49 R50 R51	7030003480 7030003440 7030003840 7030003280 7030003380	S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ) ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 225 V (2.2 MΩ) ERJ3GEYJ 470 V (47 Ω)
L32 L33 L34 L35 L36 L37 L38 L39 L40 L41 L42 L43 L44 L43 L44	6200003030 6200001830 6200001830 6200002830 6200003320 6200003330 6150000970 6200001830 6200003050 6150000990 6150000990 6200001830	S.COIL	NL 322522T-R47J-3 NL 322522T-100J NL 322522T-100J LON 1A 84NJ04 NL 322522T-3R3J-3 NL 322522T-1R0J-3 LS-112 NL 322522T-100J NL 322522T-100J NL 322522T-R68J-3		R46 R48 R49 R50 R51	7030003440 7030003840 7030003280 7030003380	S.RESISTOR S.RESISTOR S.RESISTOR S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 225 V (2.2 MΩ) ERJ3GEYJ 470 V (47 Ω)
L33 L34 L35 L36 L37 L38 L39 L40 L41 L42 L43 L44 L45 L45	620001830 620001830 620002830 6200003320 6200003330 6150000970 6200001830 6200003040 6200003050 6150000990 6150000990 6200001830	S.COIL	NL 322522T-100J NL 322522T-100J LQN 1A 84NJ04 NL 322522T-3R3J-3 NL 322522T-1R0J-3 LS-112 NL 322522T-100J NL 322522T-R68J-3		R48 R49 R50 R51	7030003840 7030003280 7030003360	S.RESISTOR S.RESISTOR S.RESISTOR	ERJ3GEYJ 225 V (2.2 MΩ) ERJ3GEYJ 470 V (47 Ω)
L34 L35 L36 L37 L38 L39 L40 L41 L42 L43 L44 L45 L46	620001830 620002830 6200003320 6200003330 6150000970 6200001830 6200003050 6150000990 6150000990 6200001830	S.COIL S.COIL S.COIL S.COIL S.COIL S.COIL S.COIL S.COIL S.COIL	NL 322522T-100J LQN 1A 84NJ04 NL 322522T-3R3J-3 NL 322522T-1R0J-3 LS-112 NL 322522T-100J NL 322522T-R88J-3		R49 R50 R51	7030003280 7030003360	S.RESISTOR S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)
L35 L36 L37 L38 L39 L40 L41 L42 L43 L44 L45	620002830 620003320 620003330 6150000970 620001830 620003040 6200003050 6150000990 6150000990 6200001830	S.COIL S.COIL S.COIL COIL S.COIL S.COIL S.COIL	LQN 1A 84NJ04 NL 322522T-3R3J-3 NL 322522T-1R0J-3 LS-112 NL 322522T-100J NL 322522T-R88J-3		R50 R51	7030003360	S.RESISTOR	
L36 L37 L38 L39 L40 L41 L42 L43 L44 L45 L46	6200003320 6200003330 6150000970 6200001830 6200003050 6150000990 6150000990 6200001830	S.COIL S.COIL COIL S.COIL S.COIL S.COIL COIL	NL 322522T-3R3J-3 NL 322522T-1R0J-3 LS-112 NL 322522T-100J NL 322522T-R88J-3		R51			ERJ3GEYJ 221 V (220 C)
L37 L38 L39 L40 L41 L42 L43 L44 L45	6200003330 6150000970 6200001830 6200003040 6200003050 6150000990 6150000990 6200001830	S.COIL COIL S.COIL S.COIL S.COIL COIL	NL 322522T-1R0J-3 LS-112 NL 322522T-100J NL 322522T-R88J-3					
L38 L39 L40 L41 L42 L43 L44 L45	6150000970 6200001830 6200003040 6200003050 6150000990 6150000990 6200001830	COIL S.COIL S.COIL S.COIL COIL	LS-112 NL 322522T-100J NL 322522T- R68 J-3		I K52	1	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
L39 L40 L41 L42 L43 L44 L45 L46	6200001830 6200003040 6200003050 6150000990 6150000990 6200001830	S.COIL S.COIL S.COIL COIL	NL 322522T-100J NL 322522T-R68J-3			7030003550	S.RESISTOR	ERJ3GEYJ 822 V (8.2 kΩ)
L40 L41 L42 L43 L44 L45 L46	620003040 6200003050 6150000990 6150000990 6200001830	S.COIL S.COIL COIL	NL 322522T-R68J-3		R53	7030003460	S.RESISTOR	ERJ3GEYJ 152 V (1.5 ΙΩ)
L41 L42 L43 L44 L45 L46	6200003050 6150000990 6150000990 6200001830	S.COIL COIL		1	R54	7030003280	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)
L42 L43 L44 L45 L46	6150000990 6150000990 6200001830	COIL	NL 322522T-R82J-3	l	R55	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
L43 L44 L45 L46	6150000990 6200001830				R56	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)
L44 L45 L46	6200001830		LS-114	l	R57	7030003340	S.RESISTOR	ERJ3GEYJ 151 V (150 Ω)
L45 L46		COIL	LS-114		R58	7030003420	S.RESISTOR	ERJ3GEYJ 681 V (680 Ω)
L46	6200001830	S.COIL	NL 322522T-100J	l	R59	7030003340	S.RESISTOR	ERJ3GEYJ 151 V (150 Ω)
		S.COIL	NL 322522T-100J		R60	7030003270	S.RESISTOR	ERJ3GEYJ 390 V (39 Ω)
	6200001830	S.COIL	NL 322522T-100J		R81	7030003340	S.RESISTOR	ERJ3GEYJ 151 V (150 Ω)
i	6200003330	S.COIL	NL 322522T-1R0J-3	1	R63	7030003280	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)
	6200001830	S.COIL	NL 322522T-100J	1	R64	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)
	6200001830	S.COIL	NL 322522T-100J	1	R65	7030003580	S.RESISTOR	ERJ3GEYJ 153 V (15 kΩ)
L50	6200001830	S.COIL	NL 322522T-100J	1	R68	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)
L51	6200001830	S.COIL	NL 322522T-100J	1	R69	7030003340	S.RESISTOR	ERJ3GEYJ 151 V (150 Ω)
L52	6200003260	S.COIL	NL 322522T-101J	1	R70	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
	6200001230	S.COIL	MLF2012A 1R0M-T	1	R71	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
L54	6200000900	S.COIL	LQN 2A R22K	1	R72	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 ΙΩ)
L55	6200002190	S.COIL	MLF2012A 4R7K-T	l	R73	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
L56	6200000780	S.COIL	LQH 3N 100K		R74	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
L57	6200004020	S.COIL	NL 322522T-039J		R75	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
L58	6200003260	S.COIL	NL 322522T-101J	l	R76	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
L59	6200001830	S.COIL	NL 322522T-100J	ı	R77	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
L60	6200003330	S.COIL	NL 322522T-1R0J-3	ı	R78	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
1				l	R79	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
l				ı	R80	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R1	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)		R81	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	l	R90	7030005390	S.RESISTOR	RR0816P-102-D (1 kΩ)
	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)		R91	7030005390	S.RESISTOR	RR0816P-102-D (1 kΩ)
	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	1	R92	7030005390	S.RESISTOR	RR0816P-102-D (1 kΩ)
	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	1	R93	7030005390	S.RESISTOR	RR0816P-102-D (1 kΩ)
	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	1	R94	7030005390	S.RESISTOR	RR0816P-102-D (1 kΩ)
	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	1	R95	7030005390	S.RESISTOR	RR0816P-102-D (1 kΩ)
	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	1	R96	7030005380	S.RESISTOR	RR0816P-102-B (1 kΩ)
	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)		R97	7030005380	S.RESISTOR	RR0816P-102-B (1 kΩ)
R10	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)		R98	7030005380	S.RESISTOR	RR0816P-102-B (1 kΩ)
	7030003280	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)	l	R99	7030005380	S.RESISTOR	RR0816P-102-B (1 kQ)
	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)	l	R100	7030005380	S.RESISTOR	RR0816P-102-B (1 kΩ)
	7030003630	S.RESISTOR	ERJ3GEYJ 393 V (39 kΩ)		R101	7030005400	S.RESISTOR	RR0816P-202-D (2 kΩ)
	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	l	R102	7030005400	S.RESISTOR	RR0816P-202-D (2 kΩ)
i	7030005390	S.RESISTOR	RR0816P-102-D (1 kΩ)	ı	R103	7030005400	S.RESISTOR	RR0816P-202-D (2 kQ)
	7030005390	S.RESISTOR	RR0816P-102-D (1 kΩ)	1	R104	7030005400	S.RESISTOR	RR0816P-202-D (2 kΩ)
	7030005390	S.RESISTOR	RR0816P-102-D (1 kΩ)	1	R105	7030005400	S.RESISTOR	RR0816P-202-D (2 kΩ)
	7030005390	S.RESISTOR	RR0816P-102-D (1 kΩ)	1	R106	7030005400	S.RESISTOR	RR0816P-202-D (2 kΩ)
4	7030005390	S.RESISTOR	RR0816P-102-D (1 kQ)		R107	7030005400	S.RESISTOR	RR0816P-202-D (2 kQ)
	7030005390	S.RESISTOR	RR0816P-102-D (1 kQ)		R108	7030005400	S.RESISTOR	RR0816P-202-D (2 kQ)
1	7030005390	S.RESISTOR	RR0816P-102-B (1 kΩ)		R109	7030005400	S.RESISTOR	RR0816P-202-B (2 kΩ)
	7030005380	S.RESISTOR	RR0816P-102-B (1 kΩ)	1	R110	7030005370	S.RESISTOR	RR0816P-202-B (2 kΩ)
1	7030005380	S.RESISTOR	RR0816P-102-B (1 kΩ)	1	R111	7030005370	S.RESISTOR	RR0816P-202-B (2 kΩ)
	7030005380	S.RESISTOR	RR0816P-102-B (1 kΩ)	1	R112	7030005370	S.RESISTOR	RR0816P-202-B (2 kQ)
	7030005380	S.RESISTOR	RR0816P-102-B (1 kΩ)		R113	7030005370		, ,
				1			S.RESISTOR	RR0816P-202-B (2 kQ)
II.	7030005400	S.RESISTOR	RR0816P-202-D (2 kΩ)	1	R114	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
	7030005400	S.RESISTOR	RR0816P-202-D (2 kΩ)	1	R115	7030003840	S.RESISTOR	ERJ3GEYJ 225 V (2.2 MΩ)
1	7030005400	S.RESISTOR	RR0816P-202-D (2 kΩ)		R116	7030003580	S.RESISTOR	ERJ3GEYJ 153 V (15 kΩ)
1	7030005400	S.RESISTOR	RR0816P-202-D (2 kΩ)		R117	7030003580	S.RESISTOR	ERJ3GEYJ 153 V (15 kΩ)
	7030005400	S.RESISTOR	RR0816P-202-D (2 kQ)	1	R120	7030003460	S.RESISTOR	ERJ3GEYJ 152 V (1.5 kΩ)
1	7030005400	S.RESISTOR	RR0816P-202-D (2 kΩ)	1	R121	7030003460	S.RESISTOR	ERJ3GEYJ 152 V (1.5 kQ)
1	7030005400	S.RESISTOR	RR0816P-202-D (2 kQ)	1	R122	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
	7030005400	S.RESISTOR	RR0816P-202-D (2 kQ)		R123	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
	7030005370	S.RESISTOR	RR0816P-202-B (2 kΩ)		R125	7030003360	S.RESISTOR	ERJ3GEYJ 221 V (220 Ω)
	7030005370	S.RESISTOR	RR0816P-202-B (2 kΩ)		R126	7030003340	S.RESISTOR	ERJ3GEYJ 151 V (150 Ω)
	7030005370	S.RESISTOR	RR0816P-202-B (2 kΩ)		R127	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
	7030005370	S.RESISTOR	RR0816P-202-B (2 kΩ)		R128	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
	7030005370	S.RESISTOR	RR0816P-202-B (2 kΩ)		R129	7030003490	S.RESISTOR	ERJ3GEYJ 272 V (2.7 kΩ)
1	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)		R130	7030003360	S.RESISTOR	ERJ3GEYJ 221 V (220 Ω)
1	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)		R131	7030003340	S.RESISTOR	ERJ3GEYJ 151 V (150 Ω)
R41	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	1	R132	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
				1				

[PLL UNIT]

REF.	ORDER	· ·	
NO.	NO.		DESCRIPTION
R133	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R134	7030003300	S.RESISTOR	ERJ3GEYJ 680 V (68 Ω)
R135	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R136	7030003600	S.RESISTOR S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ) ERJ3GEYJ 681 V (680 Ω)
R137 R138	7030003420 7030003360	S.RESISTOR	ERJ3GEYJ 221 V (220 Ω)
R139	7030003240	S.RESISTOR	ERJ3GEYJ 220 V (22 Ω)
R140	7030003360	S.RESISTOR	ERJ3GEYJ 221 V (220 Ω)
R141	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R142 R143	7030003480 7030003720	S.RESISTOR S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ) ERJ3GEYJ 224 V (220 kΩ)
R144	7030003720	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)
R146	7030003660	S.RESISTOR	ERJ3GEYJ 683 V (68 kΩ)
R147	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R148	7030003560	S.RESISTOR S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 471 V (470 Ω)
R149 R150	7030003400 7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R151	7030003280	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)
R152	7030003280	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)
R153	7030003360	S.RESISTOR S.RESISTOR	ERJ3GEYJ 221 V (220 Ω) ERJ3GEYJ 472 V (4.7 kΩ)
R154 R155	7030003520 7030003460	S.RESISTOR	ERJ3GEYJ 152 V (1.5 kQ)
R156	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R157	7030003390	S.RESISTOR	ERJ3GEYJ 391 V (390 Ω)
R158	7030003360	S.RESISTOR	ERJ3GEYJ 221 V (220 Ω) ERJ3GEYJ 563 V (56 kΩ)
R160 R161	7030003650 7030003450	S.RESISTOR S.RESISTOR	ERJ3GEYJ 563 V (56 KQ) ERJ3GEYJ 122 V (1.2 KQ)
R162	7030003430	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R163	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R165	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R166 R167	7030003680 7030003380	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 331 V (330 Ω)
R168	7030003380	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R169	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R170	7030003530	S.RESISTOR	ERJ3GEYJ 562 V (5.6 kQ)
R171 R172	7030003460 7030003320	S.RESISTOR S.RESISTOR	ERJ3GEYJ 152 V (1.5 kΩ) ERJ3GEYJ 101 V (100 Ω)
R172	7030003320	S.RESISTOR	ERJ3GEYJ 151 V (150 Ω)
R174	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R176	7030003270	S.RESISTOR	ERJ3GEYJ 390 V (39 Ω)
R177 R178	7030003340 7030003340	S.RESISTOR S.RESISTOR	ERJ3GEYJ 151 V (150 Ω) ERJ3GEYJ 151 V (150 Ω)
R179	7030003340	S.RESISTOR	MCR50JZHJ 27 Q (270)
R180	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R181	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R182	7030003580	S.RESISTOR	ERJ3GEYJ 153 V (15 kΩ) ERJ3GEYJ 222 V (2.2 kΩ)
R183 R184	7030003480 7030003340	S.RESISTOR S.RESISTOR	ERJ3GEYJ 151 V (150 Ω)
R185	7030003290	S.RESISTOR	ERJ3GEYJ 560 V (56 Ω)
R186	7030003390	S.RESISTOR	ERJ3GEYJ 391 V (390 Ω)
R187	7030003290	S.RESISTOR	ERJ3GEYJ 560 V (56 Ω) ERJ3GEYJ 103 V (10 kΩ)
R188 R189	7030003560 7030003600	S.RESISTOR S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 223 V (22 kΩ)
R190	7030003000	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kQ)
R191	7030003280	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)
R192	7030003430	S.RESISTOR	ERJ3GEYJ 821 V (820 Ω)
R193 R194	7030003580 7030003480	S.RESISTOR S.RESISTOR	ERJ3GEYJ 153 V (15 kΩ) ERJ3GEYJ 222 V (2.2 kΩ)
R195	7030003480	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R196	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R197	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R198 R199	7030003440 7030003280	S.RESISTOR S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 470 V (47 Ω)
R200	7030003280	S.RESISTOR	ERJ3GEYJ 221 V (220 Ω)
R201	7030001080	S.RESISTOR	MCR50JZHJ 27 Ω (270)
R202	7030001060	S.RESISTOR	MCR50JZHJ 27 Ω (270)
R203	7030003800 7030003800	S.RESISTOR S.RESISTOR	ERJ3GEYJ 105 V (1 MΩ) ERJ3GEYJ 105 V (1 MΩ)
R204 R205	7030003800	S.RESISTOR	ERJ3GEYJ 390 V (39 Ω)
R206	7030003340	S.RESISTOR	ERJ3GEYJ 151 V (150 Ω)
R207	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R210	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R211 R213	7030003320 7030003520	S.RESISTOR S.RESISTOR	ERJ3GEYJ 101 V (100 Ω) ERJ3GEYJ 472 V (4.7 kΩ)
R214	7030003320	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kQ)
R216	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)

REF.	ORDER NO.	DI	ESCRIPTION
R217	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R218	7030003800	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)
R219	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R220	7030003680 7030003320	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 101 V (100 Ω)
R221 R222	7030003320	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R223	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R224	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R225	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
R226 R227	7030003400 7030003440	S.RESISTOR S.RESISTOR	ERJ3GEYJ 471 V (470 Ω) ERJ3GEYJ 102 V (1 kΩ)
R228	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R229	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R230	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R231	7030003280	S.RESISTOR S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)
R232 R233	7030003340 7030003450	S.RESISTOR	ERJ3GEYJ 151 V (150 Ω) ERJ3GEYJ 122 V (1.2 kΩ)
R234	7030003280	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)
C1	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A
C2	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A
C3 C4	4030008920 4030007080	S.CERAMIC S.CERAMIC	C1608 JB 1C 473K-T-A C1608 CH 1H 390J-T-A
C5	4030007050	S.CERAMIC	C1608 CH 1H 220J-T-A
C6	4030007100	S.CERAMIC	C1608 CH 1H 560J-T-A
C7	4030007020	S.CERAMIC	C1808 CH 1H 120J-T-A
C8 C9	4030007110 4030006950	S.CERAMIC S.CERAMIC	C1608 CH 1H 680J-T-A C1608 CH 1H 040C-T-A
C9 C10	4030008950	S.CERAMIC S.CERAMIC	C1808 CH 1H 580J-T-A
C11	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A
C12	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A
C13	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A
C14 C15	4030008920 4030008920	S.CERAMIC S.CERAMIC	C1608 JB 1C 473K-T-A C1608 JB 1C 473K-T-A
C16	4030008920	S.CERAMIC S.CERAMIC	C1808 JB 1C 473K-T-A
C17	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A
C18	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A
C19	4030008920	S.CERAMIC S.CERAMIC	C1608 JB 1C 473K-T-A C1608 JB 1C 473K-T-A
C20 C21	4030008920	S.CERAMIC	C1808 JB 1C 473K-T-A
C23	4550008150	S.TANTALUM	ECST1CY105R
C24	4550006170	S.TANTALUM	ECST1AY225R
C25	4550006170	S.TANTALUM	ECST1AY225R
C26 C27	4030006850 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 471K-T-A C1608 JB 1H 102K-T-A
C28	4030008860	S.CERAMIC	C1808 JB 1H 102K-T-A
C29	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A
C31	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C32	4030007070	S.CERAMIC	C1608 CH 1H 330J-T-A
C33 C34	4030009500 4510005820	S.CERAMIC S.ELECTROLITIC	C1608 CH 1H 0R5B-T-A ECEV1CA101P
C35	4030006860	S.CERAMIC	C1808 JB 1H 102K-T-A
C36	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C37	4030006850	S.CERAMIC	C1608 JB 1H 471K-T-A
C38 C39	4030006860 4030007090	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 CH 1H 470J-T-A
C40	4030007090	S.CERAMIC S.CERAMIC	C1808 CH 1H 470J-1-A C1808 CH 1H 100D-T-A
C42	4510004440	S.ELECTROLITIC	ECEV1HA010SR
C43	4030006850	S.CERAMIC	C1808 JB 1H 471K-T-A
C44	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C45 C46	4030006860 4030007050	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 CH 1H 220J-T-A
C46 C47	4030007030	S.CERAMIC	C1808 CH 1H 2203-1-A C1808 CH 1H 070D-T-A
C48	4030007060	S.CERAMIC	C1608 CH 1H 270J-T-A
C49	4030006950	S.CERAMIC	C1608 CH 1H 040C-T-A
C50	4030007040	S.CERAMIC	C1808 CH 1H 180J-T-A
C51 C52	4030006860 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 102K-T-A
C52	4030006850	S.CERAMIC S.CERAMIC	C1608 JB 1H 471K-T-A
C54	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C55	4030006850	S.CERAMIC	C1608 JB 1H 471K-T-A
C57	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C58 C59	4030008920 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1C 473K-T-A C1608 JB 1H 102K-T-A
C60	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
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[PLL UNIT]

REF. NO.	ORDER NO.	DI	ESCRIPTION
C61	4030006960	S.CERAMIC	C1608 CH 1H 050C-T-A
C62	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C63	4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 471K-T-A
C64 C65	403000 8 850 4030008920	S.CERAMIC S.CERAMIC	C1608 JB 1C 473K-T-A
C66	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A
C67	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A
C68	4030007080	S.CERAMIC	C1608 CH 1H 390J-T-A
C69 C70	4030007050 4030007100	S.CERAMIC S.CERAMIC	C1608 CH 1H 220J-T-A C1608 CH 1H 560J-T-A
C71	4030007100	S.CERAMIC	C1608 CH 1H 120J-T-A
C72	4030007110	S.CERAMIC	C1808 CH 1H 880J-T-A
C73	4030006950	S.CERAMIC	C1808 CH 1H 040C-T-A
C74	4030007100	S.CERAMIC	C1608 CH 1H 560J-T-A
C75 C78	4030008920 4030008920	S.CERAMIC S.CERAMIC	C1608 JB 1C 473K-T-A C1608 JB 1C 473K-T-A
C77	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A
C78	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A
C79	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A
C80	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A C1608 JB 1C 473K-T-A
C81 C82	4030008920 4030008920	S.CERAMIC S.CERAMIC	C1608 JB 1C 473K-T-A
C83	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A
C84	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A
C85	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A
C87 C88	4510004630 4030006850	S.ELECTROLITIC S.CERAMIC	ECEV1CA100SR C1608 JB 1H 471K-T-A
C89	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C93	4550006130	S.TANTALUM	ECST1VY224R
C94	4550006430	S.TANTALUM	ECST1VY474R
C95	4550006430	S.TANTALUM S.CERAMIC	ECST1VY474R C1608 JB 1C 473K-T-A
C96 C97	4030008920 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A
C98	4030006850	S.CERAMIC	C1608 JB 1H 471K-T-A
C99	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C100	4510005820	S.ELECTROLITIC	ECEVICA101P
C101 C102	4030006850 4030008310	S.CERAMIC S.CERAMIC	C1608 JB 1H 471K-T-A C1608 UJ 1H 390J-T-A
C102	4030008310	S.CERAMIC	C1608 UJ 1H 030C-T-A
C104	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C105	4510005820	S.ELECTROLITIC	ECEVICA101P
C106	4030006850 4610001900	S.CERAMIC S.TRIMMER	C1608 JB 1H 471K-T-A CTZ3E-05A-W1
C107 C108	4030006950	S.CERAMIC	C1808 CH 1H 040C-T-A
C109	4030006950	S.CERAMIC	C1808 CH 1H 040C-T-A
C110	4030006920	S.CERAMIC	C1608 CH 1H 010C-T-A
C111	4030006850	S.CERAMIC	C1608 JB 1H 471K-T-A C1608 JB 1H 102K-T-A
C112 C113	4030006860 4030006850	S.CERAMIC S.CERAMIC	C1608 JB 1H 471K-T-A
C114	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C115	4030006960	S.CERAMIC	C1608 CH 1H 050C-T-A
C116	4030006980	S.CERAMIC	C1608 CH 1H 070D-T-A
C117 C118	4030006930 4030006980	S.CERAMIC S.CERAMIC	C1608 CH 1H 020C-T-A C1608 CH 1H 070D-T-A
C118	4030007020	S.CERAMIC S.CERAMIC	C1608 CH 1H 120J-T-A
C120	4510004440	S.ELECTROLITIC	ECEV1HA010SR
C121	4030006850	S.CERAMIC	C1808 JB 1H 471K-T-A
C122 C124	4030006860 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 102K-T-A
C124	4030007030	S.CERAMIC S.CERAMIC	C1808 CH 1H 150J-T-A
C126	4030009470	S.CERAMIC	C1608 CH 1H R75C-T-A
C127	4030007040	S.CERAMIC	C1608 CH 1H 180J-T-A
C128	4030009470	S.CERAMIC	C1608 CH 1H R75C-T-A C1608 CH 1H 150J-T-A
C129 C130	4030007030 4030006860	S.CERAMIC S.CERAMIC	C1608 CH 1H 150J-1-A C1608 JB 1H 102K-T-A
C131	4030006850	S.CERAMIC	C1608 JB 1H 471K-T-A
C132	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C133	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C134	4030006850	S.CERAMIC S.CERAMIC	C1608 JB 1H 471K-T-A C1608 JB 1H 472K-T-A
C135 C136	4030006860	S.CERAMIC S.CERAMIC	C1808 JB 1H 102K-T-A
C137	4030006850	S.CERAMIC	C1608 JB 1H 471K-T-A
C138	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C139	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C140 C141	4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 102K-T-A
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REF.	ORDER		
NO.	NO.	D	ESCRIPTION
C142	4030006850	S.CERAMIC	C1608 JB 1H 471K-T-A
C143	4030007010	S.CERAMIC	C1608 CH 1H 100D-T-A
C144 C145	4030006860 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 102K-T-A
C145	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C147	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C148	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A
C149	4510005820 4030006860	S.ELECTROLITIC S.CERAMIC	ECEV1CA101P C1808 JB 1H 102K-T-A
C150 C151	4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A
C152	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C153	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A
C154 C155	4030006860 4030007130	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 CH 1H 101J-T-A
C156	4030007130	S.CERAMIC	C1608 JB 1H 102K-T-A
C157	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C158	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A
C159 C163	4030006880 4030008920	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1C 473K-T-A
C164	4030007030	S.CERAMIC	C1608 CH 1H 150J-T-A
C165	4610001900	S.TRIMMER	CTZ3E-05A-W1
C166	4030008210	S.CERAMIC	C1608 UJ 1H 060D-T-A
C167 C168	4030007070 4030006970	S.CERAMIC S.CERAMIC	C1608 CH 1H 330J-T-A C1608 CH 1H 060D-T-A
C169	4030006940	S.CERAMIC	C1608 CH 1H 030C-T-A
C170	4030006870	S.CERAMIC	C1608 JB 1H 222K-T-A
C171	4510004840 4030006860	S.ELECTROLITIC S.CERAMIC	ECEV1CA470SP C1608 JB 1H 102K-T-A
C172 C173	4030006860	S.CERAMIC S.CERAMIC	C1808 CH 1H 010C-T-A
C174	4030006860	S.CERAMIC	C1808 JB 1H 102K-T-A
C175	4030006970	S.CERAMIC	C1808 CH 1H 060D-T-A
C176	4030006860 4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 472K-T-A
C177 C178	4030006950	S.CERAMIC	C1808 CH 1H 040C-T-A
C179	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A
C180	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C181 C182	4030006880 4030008920	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1C 473K-T-A
C182	4030008920	S.CERAMIC	C1808 CH 1H 100D-T-A
C184	4030006840	S.CERAMIC	C1608 SL 1H 391J-T-A
C185	4030007120	S.CERAMIC	C1608 CH 1H 820J-T-A
C186 C187	4030010040 4030007070	S.CERAMIC S.CERAMIC	C1608 JB 1H 561K-T-A C1608 CH 1H 330J-T-A
C188	4030006840	S.CERAMIC	C1808 SL 1H 391J-T-A
C189	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A
C190	4510004630 4510004630	S.ELECTROLITIC	ECEV1CA100SR ECEV1CA100SR
C191 C192	4030008920	S.ELECTROLITIC	C1608 JB 1C 473K-T-A
C193	4030006860	S.CERAMIC	C1808 JB 1H 102K-T-A
C194	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C195	4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1H 102K-T-A
C198 C197	4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A
C198	4030007030	S.CERAMIC	C1608 CH 1H 150J-T-A
C199	4030006920	S.CERAMIC	C1608 CH 1H 010C-T-A
C200 C202	4030007030 4030006860	S.CERAMIC S.CERAMIC	C1608 CH 1H 150J-T-A C1608 JB 1H 102K-T-A
C202	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A
C204	4510004440	S.ELECTROLITIC	ECEV1HA010SR
C205	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C208 C207	4030006860 4030006850	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 471K-T-A
C207	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C209	4030006850	S.CERAMIC	C1608 JB 1H 471K-T-A
C210	4030006960	S.CERAMIC	C1608 CH 1H 050C-T-A C1608 JB 1E 103K-T-A
C211 C212	4030006900	S.CERAMIC S.CERAMIC	C1608 JB 1E 103K-1-A C1608 JB 1H 472K-T-A
C213	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A
C214	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A
C215	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1H 472K-T-A
C216 C217	4030006880	S.CERAMIC S.CERAMIC	C1808 JB 1H 472K-T-A
C218	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A
C219	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A
C220 C221	4510004630 4030010210	S.ELECTROLITIC S.CERAMIC	ECEV1CA100SR C3216 JB 1C 105M-T-A
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Ī	REF.	ORDER	D	ESCRIPTION
ł	NO.	NO.		
١	C223	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A
ı	C224 C225	4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 472K-T-A
1	C226	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
1	C227	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
١	C228	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
١	C229	4030006860	S.CERAMIC	C1808 JB 1H 102K-T-A
١	C230 C232	4030010210	S.CERAMIC S.CERAMIC	C3216 JB 1C 105M-T-A C1608 JB 1H 102K-T-A
ı	C233	4510005820	S.ELECTROLITIC	
١	C234	4030006830	S.CERAMIC	C1608 SL 1H 331J-T-A
١	C235	4030007170	S.CERAMIC	C1608 CH 1H 221J-T-A
1	C236 C237	4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1C 473K-T-A
1	C238	4030008860	S.CERAMIC	C1608 JB 1H 102K-T-A
1	C239	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A
ı	C240	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
ı	C243 C244	4510004630 4030006850	S.ELECTROLITIC	ECEV1CA100SR C1608 JB 1H 471K-T-A
ı	C244 C245	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
ł	C246	4510004630	S.ELECTROLITIC	
١	C247	4030006850	S.CERAMIC	C1608 JB 1H 471K-T-A
I	C248	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
I	C249 C252	4030006940 4550006320	S.CERAMIC S.TANTALUM	C1808 CH 1H 030C-T-A ECST0JY475R
ı	C253	4030007050	S.CERAMIC	C1808 CH 1H 220J-T-A
١	C254	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
ı	C255	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
l	C256 C257	4030007090	S.CERAMIC S.CERAMIC	C1608 CH 1H 470J-T-A C1608 CH 1H 180J-T-A
ı	C257	4030007040	S.CERAMIC	C1608 CH 1H 070D-T-A
ı	C259	4030007040	S.CERAMIC	C1608 CH 1H 180J-T-A
١	C260	4030008880	S,CERAMIC	C1608 JB 1H 472K-T-A
١	C261 C262	4030008880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C2012 JB 1C 104K-T-A
ı	C262	4030008860	S.CERAMIC	C1808 JB 1H 102K-T-A
ı	C264	4510004650	S.ELECTROLITIC	
١	C265	4510004650	S.ELECTROLITIC	ECEV1EA4R7SR
١	C266	4510005820 4030008920	S.ELECTROLITIC S.CERAMIC	ECEV1CA101P C1608 JB 1C 473K-T-A
ı	C267 C268	4550006430	S.TANTALUM	ECST1VY474R
۱	C269	4550006430	S.TANTALUM	ECST1VY474R
ı	C270	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A
ı	C271	4030007070 4030008920	S.CERAMIC S.CERAMIC	C1608 CH 1H 330J-T-A C1608 JB 1C 473K-T-A
ı	C272 C273	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A
ı	C275	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A
1	C276	4030007130	S.CERAMIC	C1608 CH 1H 101J-T-A
1	C277	4030007010	S.CERAMIC S.CERAMIC	C1608 CH 1H 100D-T-A C1608 CH 1H 100D-T-A
1	C278 C279	4030007010	S.CERAMIC	C1608 CH 1H 100D-T-A
ı	C280	4030007010	S.CERAMIC	C1608 CH 1H 100D-T-A
	C281	4030007130	S.CERAMIC	C1608 CH 1H 101J-T-A
	C283	4030007010	S.CERAMIC	C1608 CH 1H 100D-T-A
١	C284 C285	4030007010 4030006960	S.CERAMIC S.CERAMIC	C1608 CH 1H 100D-T-A C1608 CH 1H 050C-T-A
	C286	4550006130	S.TANTALUM	ECST1VY224R
١	C287	4550006200	S.TANTALUM	ECST0JY108R
١	C288	4030006850	S.CERAMIC	C1608 JB 1H 471K-T-A
I	W11	8900004441	CABLE	OPC-451-1
١	W13	8900004450	CABLE	OPC-451 A
١	W17	8900004470	CABLE	OPC-451 C
١	W19	8900004500	CABLE	OPC-452
	W21 W29	8900004510 7030003860	CABLE S.JUMPER	OPC-452 A ERJ3GE JPW V
1	W29 W30	7030003860	S.JUMPER	ERJ3GE JPW V
1	W31	7030003860	\$.JUMPER	ERJ3GE JPW V
I	W32	7030003860	S.JUMPER	ERJ3GE JPW V
١	W40 W41	7030003860 7030003860	S.JUMPER S.JUMPER	ERJ3GE JPW V ERJ3GE JPW V
I	W41 W42	7030003860	S.JUMPER	ERJ3GE JPW V
١	W48	7030003860	S.JUMPER	ERJ3GE JPW V
١			non.	D
١	EP1	0910040335	PCB	B 4002E
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[MAIN U	MAIN UNIT]				
REF. NO.	ORDER NO.	D	ESCRIPTION		
IC1	1110000980	s.ic	NJM4558M(T1)		
IC2	1110000960	S.IC	NJM4558M(T1)		
IC3	1110002490	S.IC	M5218FP-73A		
IC4	1110002490	\$.IC	M5218FP-73A		
IC5	1110002490	S.IC	M5218FP-73A		
IC6	1110003140	IC	LA1150N		
IC7 IC8	1130007700	S.IC S.IC	μPC1037GR-E1(MS) BU4094BCF-T1		
IC9	1130001700	S.IC	иPD4069UBG-T1		
IC10	1130007700	S.IC	BU4094BCF-T1		
IC11	1110002200	S.IC	MC3372MR		
IC12	1110000960	S.IC	NJM4558M(T1)		
IC13	1110003300	S.IC S.IC	M5282FP 70CD		
IC14 IC15	1110003350	S.IC	μPC1037GR-E1(MS) M5218FP-73A		
IC18	1130001250	S.IC	uPD4066BG-T1		
IC17	1130004200	S.IC	TC4S88F (TE85R)		
IC18	1130004200	S.IC	TC4S66F (TE85R)		
IC19	1110000960	S.IC	NJM4558M(T1)		
IC20 IC21	1110002200	S.IC S.IC	MC3372MR M5282FP 70CD		
IC21	1110003300	S.IC S.IC	M5282FP 70CD μPC1037GR-E1(MS)		
IC23	1110003330	S.IC	M5218FP-73A		
IC24	1130007700	S.IC	BU4094BCF-T1		
IC25	1180001100	IC	PQ09RF2		
IC26	1110001400	S.IC	μPC1555G2-T1		
IC27	1180001070	S.IC	TA7805F(TE16L)		
IC28 IC29	1130001250	S.IC S.IC	μPD4066BG-T1 μPD4066BG-T1		
IC30	1110003300	S.IC	M5282FP 70CD		
IC31	1110003300	S.IC	M5282FP 70CD		
IC32	1110002540	IC	LA4445		
IC33	1130001250	s.ic	μPD4066BG-T1		
Q1	1580000540	S.FET	3SK131-T2-LA		
Q2 Q3	1590001330 1590001330	S.TRANSISTOR S.TRANSISTOR	DTA114EU T107 DTA114EU T107		
Q3 Q4	1530001330	S.TRANSISTOR	2SC4118-GR (TE85R)		
Q5	1590001330	S.TRANSISTOR	DTA114EU T107		
Q6	1530002890	S.TRANSISTOR	2SC4116-GR (TE85R)		
Q7	1580000580	S.FET	2SK882-GR (TE85L)		
Q8	1510000770	S.TRANSISTOR	2SA1588-GR (TE85R)		
Q9 Q10	1580000580 1530002890	S.FET S.TRANSISTOR	2SK882-GR (TE85L) 2SC4118-GR (TE85R)		
Q11	1530002690	S.TRANSISTOR	2SC4116-GR (TE85R)		
Q12	1590001600	S.TRANSISTOR	UMD3 TL		
Q13	1580000540	S.FET	3SK131-T2-LA		
Q14	1530002690	S.TRANSISTOR	2SC4116-GR (TE85R)		
Q15 Q16	1590000670 1530002690	S.TRANSISTOR S.TRANSISTOR	FMW1 T148		
Q17	1530002690	S.TRANSISTOR	2SC4118-GR (TE85R) 2SC4118-GR (TE85R)		
Q18	1590000430	S.TRANSISTOR	DTC144EU T107		
Q19	1530003090	S.TRANSISTOR	2SC4213-B (TE85R)		
Q20	1590000430	S.TRANSISTOR	DTC144EU T107		
Q21	1590000430	S.TRANSISTOR	DTC144EU T107		
Q22	1590000430	S.TRANSISTOR	DTC144EU T107		
Q23 Q24	1590001000 1590001000	S.TRANSISTOR S.TRANSISTOR	RN2427 (TE85R) RN2427 (TE85R)		
Q25	1590001000	S.TRANSISTOR	DTC144EU T107		
Q26	1590000430	S.TRANSISTOR	DTC144EU T107		
Q27	1590000430	S.TRANSISTOR	DTC144EU T107		
Q28	1590000430	S.TRANSISTOR	DTC144EU T107		
Q29	1590000430	S.TRANSISTOR	DTC144EU T107		
Q30 Q34	1590000430 1590001330	S.TRANSISTOR S.TRANSISTOR	DTC144EU T107 DTA114EU T107		
Q37	1590001330	S.TRANSISTOR	RN2427 (TE85R)		
Q38	1590001000	S.TRANSISTOR	RN2427 (TE85R)		
Q39	1530002690	S.TRANSISTOR	2SC4116-GR (TE85R)		
Q40	1530002980	S.TRANSISTOR	2SC3650-TD		
Q41	1590000680	S.TRANSISTOR	DTC114EU T107		
Q42 Q43	1590002030 1590002030	S.TRANSISTOR S.TRANSISTOR	RN2425 (TE85R) RN2425 (TE85R)		
Q44	1590000430	S.TRANSISTOR	DTC144EU T107		
Q45	1590000430	S.TRANSISTOR	DTC144EU T107		
Q49	1590000430	S.TRANSISTOR	DTC144EU T107		

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REF.	ORDER	C	DESCRIPTION
NO.	NO.		
Q53	1590000720	S.TRANSISTOR S.TRANSISTOR	DTA144EU T107
Q54 Q55	1510000770 1590000430	S.TRANSISTOR	2SA1586-GR (TE85R) DTC144EU T107
Q56	1530002690	S.TRANSISTOR	2SC4118-GR (TE85R)
Q57	1590001330	S.TRANSISTOR	DTA114EU T107
Q59 Q60	1530002690 1530002690	S.TRANSISTOR S.TRANSISTOR	2SC4116-GR (TE85R) 2SC4116-GR (TE85R)
Q61	1580000540	S.FET	3SK131-T2-LA
Q62	1580000540	S.FET	3SK131-T2-LA
Q63 Q64	1590000430 1590000430	S.TRANSISTOR S.TRANSISTOR	DTC144EU T107 DTC144EU T107
Q65	1530002690	S.TRANSISTOR	2SC4118-GR (TE85R)
Q66	1510000770	S.TRANSISTOR	2SA1586-GR (TE85R)
Q67 Q68	1510000770 1590000430	S.TRANSISTOR S.TRANSISTOR	2SA1586-GR (TE85R) DTC144EU T107
Q69	1530002690	S.TRANSISTOR	2SC4116-GR (TE85R)
Q70	1590001330	S.TRANSISTOR	DTA114EU T107
Q71 Q72	1590000430 1530002690	S.TRANSISTOR S.TRANSISTOR	DTC144EU T107 2SC4116-GR (TE85R)
Q73	1530002690	S.TRANSISTOR	2SC4116-GR (TE85R)
Q74	1590000430	S.TRANSISTOR	DTC144EU T107
Q75 Q76	1530002690 1530002690	S.TRANSISTOR S.TRANSISTOR	2SC4116-GR (TE85R) 2SC4116-GR (TE85R)
Q77	1530002090	S.TRANSISTOR	2SC4116-GR (TE85R)
Q78	1530002690	S.TRANSISTOR	2SC4118-GR (TE85R)
Q79 Q80	1530002690 1530002690	S.TRANSISTOR S.TRANSISTOR	2SC4116-GR (TE85R) 2SC4116-GR (TE85R)
Q81	1530002690	S.TRANSISTOR	2SC4116-GR (TE85R)
Q82	1510000770	S.TRANSISTOR	2SA1586-GR (TE85R)
Q83 Q84	1530002690 1510000770	S.TRANSISTOR S.TRANSISTOR	2SC4116-GR (TE85R) 2SA1586-GR (TE85R)
Q85	1590001330	S.TRANSISTOR	DTA114EU T107
Q86	1590001330	S.TRANSISTOR	DTA114EU T107
Q87 Q88	1590001000 1590001000	S.TRANSISTOR S.TRANSISTOR	RN2427 (TE85R) RN2427 (TE85R)
Q89	1590001330	S.TRANSISTOR	DTA114EU T107
Q90	1590001330	S.TRANSISTOR	DTA114EU T107
Q91 Q92	1590000430 1590000430	S.TRANSISTOR S.TRANSISTOR	DTC144EU T107 DTC144EU T107
Q93	1590000430	S.TRANSISTOR	DTC144EU T107
Q94	1590000430	S.TRANSISTOR	DTC144EU T107
Q95 Q96	1590000430 1590000430	S.TRANSISTOR S.TRANSISTOR	DTC144EU T107 DTC144EU T107
Q97	1590000430	S.TRANSISTOR	DTC144EU T107
Q98	1580000540 1530002690	S.FET S.TRANSISTOR	3SK131-T2-LA 2SC4118-GR (TE85R)
Q99 Q100	1580002690	S.FET	3SK131-T2-LA
Q101	1580000540	S.FET	3SK131-T2-LA
Q102	1590000430	S.TRANSISTOR	DTC144EU T107
Q103 Q104	1590000430 1530002690	S.TRANSISTOR S.TRANSISTOR	DTC144EU T107 2SC4118-GR (TE85R)
Q105	1510000770	S.TRANSISTOR	2SA1586-GR (TE85R)
Q107	1590000430 1590001330	S.TRANSISTOR S.TRANSISTOR	DTC144EU T107 DTA114EU T107
Q108 Q109	1530002690	S.TRANSISTOR	2SC4118-GR (TE85R)
Q110	1530002690	S.TRANSISTOR	2SC4118-GR (TE85R)
Q111 Q112	1590000430 1530002890	S.TRANSISTOR S.TRANSISTOR	DTC144EU T107 2SC4116-GR (TE85R)
Q112 Q114	1590002890	S.TRANSISTOR	DTC144EU T107
Q115	1530002690	S.TRANSISTOR	2SC4118-GR (TE85R)
Q116 Q117	1590001450 1590001450	S.FET S.FET	2SJ144-GR (TE85R) 2SJ144-GR (TE85R)
Q118	1590001430	S.TRANSISTOR	DTC144EU T107
Q119	1530002690	S.TRANSISTOR	2SC4116-GR (TE85R)
Q120 Q122	1530002690 1530002690	S.TRANSISTOR S.TRANSISTOR	2SC4116-GR (TE85R) 2SC4116-GR (TE85R)
Q122 Q123	1590000680	S.TRANSISTOR	DTC114EU T107
D1	1710000050	DIODE	1SS53
D2	1790000620	S.DIODE	MA77(TW)
D3 D4	1790000620 1790000620	S.DIODE S.DIODE	MA77(TW) MA77(TW)
D5	1790000620	S.DIODE S.DIODE	MA77(TW)
D6	1790000620	S.DIODE	MA77(TW)
D7	1790000620	S.DIODE	MA77(TW)
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REF. NO.	ORDER NO.		DESCRIPTION
D8	1790000620	S.DIODE	MA77(TW)
D9	1790000620	S.DIODE	MA77(TW)
D10	1790000620	S.DIODE	MA77(TW)
D11	1750000390	S.DIODE	1SS353 TE-17
D12 D13	1790000450 1720000380	S.DIODE S.DIODE	MA862(TX) HSU88TRF
D14	1750000110	S.DIODE	1SS272 (TE85R)
D15	1750000390	S.DIODE	1SS353 TE-17
D16	1750000110	S.DIODE	1SS272 (TE85R)
D17 D18	1790000490 1790000450	S.DIODE S.DIODE	HSM88AS-TR MA862(TX)
D18	1790000430	S.DIODE	MA77(TW)
D20	1790000820	S.DIODE	MA77(TW)
D21	1790000620	S.DIODE	MA77(TW)
D22 D23	1720000270	S.VARICAP S.DIODE	1SV217 (TPH2) MA77(TW)
D23	1790000020	S.DIODE	MA862(TX)
D25	1750000390	S.DIODE	1SS353 TÉ-17
D26	1750000110	S.DIODE	1SS272 (TE85R)
D27	1750000390	S.DIODE	1\$\$353 TE-17 1\$\$272 (TE85R)
D28 D29	1750000110 1750000110	S.DIODE S.DIODE	1SS272 (TE85R) 1SS272 (TE85R)
D30	1750000110	S.DIODE	1SS272 (TE85R)
D31	1750000110	S.DIODE	1SS272 (TE85R)
D32	1750000390	S.DIODE	1SS353 TE-17
D33 D34	1750000110 1730000730	S.DIODE S.ZENER	1SS272 (TE85R) RD6.2M-T2B2
D35	1790000490	S.DIODE	HSM88AS-TR
D36	1790000620	S.DIODE	MA77(TW)
D37	1790000620	S.DIODE	MA77(TW)
D38 D39	1790000820 1750000390	S.DIODE S.DIODE	MA77(TW) 1\$\$353 TE-17
D40	1750000390	S.DIODE	1SS353 TE-17
D41	1750000390	S.DIODE	1SS353 TE-17
D42	1750000390	S.DIODE	1\$\$353 TE-17
D43 D44	1750000390 1790000490	S.DIODE S.DIODE	1SS353 TE-17 HSM88AS-TR
D44 D45	1750000490	S.DIODE	1SS353 TE-17
D46	1750000390	S.DIODE	1\$\$353 TE-17
D47	1750000390	S.DIODE	1SS353 TE-17
D48	1750000390	S.DIODE S.DIODE	1\$\$353 TE-17 1\$\$353 TE-17
D49 D50	1750000390	S.DIODE	1SS353 TE-17
D51	1750000390	S.DIODE	1SS353 TE-17
D53	1790000490	S.DIODE	HSM88AS-TR
D54	1730000730	S.ZENER	RD6.2M-T2B2
D55 D56	1790000490 1790000450	S.DIODE S.DIODE	HSM88AS-TR MA862(TX)
D57	1790000450	S.DIODE	MA862(TX)
D59	1790000620	S.DIODE	MA77(TW)
D60	1790000450	S.DIODE	MA862(TX)
D61 D62	1750000390 1750000390	S.DIODE S.DIODE	1\$\$353 TE-17 1\$\$353 TE-17
D62	1750000390	S.DIODE	1SS272 (TE85R)
D64	1730000410	S.ZENER	RD5.1M-T2B2
D65	1750000110	S.DIODE	1SS272 (TE85R)
D67 D68	1790000450 1750000390	S.DIODE S.DIODE	MA862(TX)
D69	1750000390	S.DIODE S.DIODE	1SS353 TE-17 1SS353 TE-17
D70	1750000390	S.DIODE	1SS353 TE-17
D71	1750000390	S.DIODE	1\$\$353 TE-17
D72	1750000390	S.DIODE	1SS353 TE-17
D73 D74	1790000490 1750000110	S.DIODE S.DIODE	HSM88AS-TR 1SS272 (TE85R)
D75	1750000110	S.DIODE	1SS272 (TE85R)
D76	1750000390	S.DIODE	1SS353 TE-17
D77	1750000110	S.DIODE	1SS272 (TE85R)
D78 D79	1750000390 1750000390	S.DIODE S.DIODE	1SS353 TE-17 1SS353 TE-17
D80	1750000390	S.DIODE	1\$\$353 TE-17 1\$\$353 TE-17
D82	1750000390	S.DIODE	1SS353 TE-17
D83	1750000390	S.DIODE	1SS353 TE-17
D84	1750000390	S.DIODE	1SS353 TE-17
D85 D86	1750000390 1730000820	S.DIODE S.ZENER	1SS353 TE-17 RD3.6M-T2B2
D88	1730000850	S.ZENER	RD9.1M-T2B3
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[MAIN UNIT]

REF.	ORDER	DESCRIPTION		
NO.	NO.	And July D. D. Waller		
D89	1750000390	S.DIODE	1SS353 TE-17	
D90 D91	1750000390	S.DIODE S.DIODE	1SS353 TE-17 1SS353 TE-17	
D91	1730000390	S.ZENER	RD20M-T2B2	
FI1	2010001080	FILTER	FL-128	
FI2	2010001730	FILTER	FL-211 (10.850MHz)	
FI3 FI4	2020001020	CERAMIC CERAMIC	SFH455E CFW455E	
FI5	2010001090	FILTER	FL-129	
FI6	2010001740	FILTER	FL-212 (10.950MHz)	
X1	6050008700	XTAL	CR-451 (10.8550MHz)	
X2	6070000090	DISCRIMINATOR	CDB455C16	
ХЗ	6050008450	XTAL	CR-298	
X4	6070000090	DISCRIMINATOR		
X5	6050006470	XTAL	CR-301	
X6	6050006460	XTAL	CR-299	
L1	6150004200	COIL	LS-479	
L2	6150004170	COIL	LS-476	
L3 L4	6200003260 6200003950	S.COIL S.COIL	NL 322522T-101J HF50ACC 322513-T	
L4 L5	6200003950	S.COIL	NL 322522T-101J	
L6	6200001830	S.COIL	NL 322522T-100J	
L7	6200003590	S.COIL	EXCCL3225U	
L8	6150000950	COIL	LS-110A	
L9 L10	6200003280 6150004170	S.COIL COIL	NL 322522T-101J LS-476	
L11	8150004210	COIL	LS-480	
L12	6150004210	COIL	LS-480	
L13	6150004170	COIL	LS-476	
L14	6200001830	S.COIL S.COIL	NL 322522T-100J NL 322522T-101J	
L15 L16	6200003260 6200001830	S.COIL	NL 322522T-1013 NL 322522T-100J	
L17	6200003130	S.COIL	NL 322522T-120J	
L18	6150002040	COIL	LS-256	
L19	6200003260	S,COIL	NL 322522T-101J	
L20 L21	6200003260	S.COIL S.COIL	NL 322522T-101J NL 322522T-101J	
L22	6200001830	S.COIL	NL 322522T-100J	
L23	6200003260	S.COIL	NL 322522T-101J	
L24	6200003260	S.COIL	NL 322522T-101J	
L25	6150004200	COIL	LS-479	
L26 L27	6200003260 6150004210	S.COIL COIL	NL 322522T-101J LS-480	
L28	6150004270	COIL	LS-476	
L29	6200003260	S.COIL	NL 322522T-101J	
L30	6200003260	S.COIL	NL 322522T-101J	
L31 L32	6200003950 6200003950	S.COIL S.COIL	HF50ACC 322513-T HF50ACC 322513-T	
L32	6200003950	S.COIL S.COIL	HF50ACC 322513-T	
L34	6200003260	S.COIL	NL 322522T-101J	
L35	6200003260	S.COIL	NL 322522T-101J	
L36	6150004190	COIL	LS-478	
L37 L38	6200001470 6150004200	S.COIL COIL	NL 322522T-R12J-3 LS-479	
L36	6200003260	S.COIL	NL 322522T-101J	
L40	6150004210	COIL	LS-480	
L41	6150004170	COIL	LS-476	
L42	6200003260	S.COIL	NL 322522T-101J	
L43 L45	6200003260	S.COIL S.COIL	NL 322522T-101J NL 322522T-101J	
L45	8150004210	COIL	LS-480	
L47	6150004210	COIL	LS-480	
L48	6150004170	COIL	LS-476	
L49	6200003260	S.COIL	NL 322522T-101J	
L50 L51	6200003260 6200003950	S.COIL S.COIL	NL 322522T-101J HF50ACC 322513-T	
L52	6200003260	S.COIL	NL 322522T-101J	
L53	6200003260	S.COIL	NL 322522T-101J	
L54	6170000140	COIL	LW-15	
L55	6200003260	S.COIL	NL 322522T-101J	

[MAIN U	MAIN UNIT]				
REF. NO.	ORDER NO.	D	ESCRIPTION		
L58	6200003590	S.COIL	EXCCL3225U		
L57	6200003590	S.COIL	EXCCL3225U		
L58	6200003950	S.COIL	HF50ACC 322513-T		
L59	6200003590	S.COIL	EXCCL3225U		
L60 L61	6200003950 6200003950	S.COIL S.COIL	HF50ACC 322513-T HF50ACC 322513-T		
L62	6200003950	S.COIL	HF50ACC 322513-T		
L63	6200003950	S.COIL	HF50ACC 322513-T		
L64	6200003950	S.COIL	HF50ACC 322513-T		
L65	6200003950	S.COIL	HF50ACC 322513-T		
L66 L67	6200003260 6200001830	S.COIL S.COIL	NL 322522T-101J NL 322522T-100J		
L68	6200000570	S.COIL	MLF3216C 180M-T		
L69	6200003950	S.COIL	HF50ACC 322513-T		
L70	6200003950	S.COIL	HF50ACC 322513-T		
R1	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)		
R2	7310002740	S.TRIMMER	RV-150 (RH03A3A14X0FC)103		
R3	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)		
R4	7030003270	S.RESISTOR	ERJ3GEYJ 390 V (39 Ω)		
R6	7510000910	S.THERMISTOR	NTCCF2012 4AH 473KC-T		
R7	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)		
R8 R9	7030003500 7030003560	S.RESISTOR S.RESISTOR	ERJ3GEYJ 332 V (3.3 kΩ) ERJ3GEYJ 103 V (10 kΩ)		
R10	7030003360	S.RESISTOR	ERJ3GEYJ 221 V (220 Ω)		
R11	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)		
R12	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)		
R13	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)		
R14 R15	7030003520	S.RESISTOR S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ) ERJ3GEYJ 152 V (1.5 kΩ)		
R16	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)		
R17	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)		
R18	7030003430	S.RESISTOR	ERJ3GEYJ 821 V (820 Ω)		
R19	7030003320 7030003520	S.RESISTOR S.RESISTOR	ERJ3GEYJ 101 V (100 Ω) ERJ3GEYJ 472 V (4.7 kΩ)		
R20 R21	7030003520	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)		
R22	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)		
R23	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)		
R24	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kQ)		
R25 R26	7030003520 7030003520	S.RESISTOR S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ) ERJ3GEYJ 472 V (4.7 kΩ)		
R27	7510000830	S.THERMISTOR	NTCCF2012 3EH 471KC-T		
R28	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)		
R29	7310002720	S.TRIMMER	RV-148 (RH03A3AS3X0DA)472		
R30	7030003660	S.RESISTOR	ERJ3GEYJ 683 V (68 kΩ)		
R31	7030003660	S.RESISTOR	ERJ3GEYJ 683 V (68 kΩ)		
R32 R33	7030003660	S.RESISTOR S.RESISTOR	ERJ3GEYJ 683 V (68 kΩ) ERJ3GEYJ 103 V (10 kΩ)		
R34	7030003300	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)		
R35	7030003710	S.RESISTOR	ERJ3GEYJ 184 V (180 kΩ)		
R36	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kQ)		
R37	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)		
R38 R39	7030003630	S.RESISTOR S.RESISTOR	ERJ3GEYJ 393 V (39 kΩ) ERJ3GEYJ 332 V (3.3 kΩ)		
R40	7030003300	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)		
R41	7310002740	S.TRIMMER	RV-150 (RH03A3A14X0FC)103		
R43	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)		
R44	7030003450	S.RESISTOR	ERJ3GEYJ 122 V (1.2 kΩ)		
R45	7030003380	S.RESISTOR	ERJ3GEYJ 221 V (220 Ω)		
R46 R47	7030003560 7030003640	S.RESISTOR S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 473 V (47 kΩ)		
R48	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)		
R49	7030003610	S.RESISTOR	ERJ3GEYJ 273 V (27 kΩ)		
R50	7030003550	S.RESISTOR	ERJ3GEYJ 822 V (8.2 kΩ)		
R51	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)		
R52 R53	7030003440 7030003580	S.RESISTOR S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 153 V (15 kΩ)		
R54	7030003800	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)		
R55	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 KΩ)		
R58	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)		
R57 R58	7030003360	S.RESISTOR S.RESISTOR	ERJ3GEYJ 221 V (220 Ω) ERJ3GEYJ 101 V (100 Ω)		
l noo	7030003320	J.NESIS IUR	FU090E13 101 A (100 N)		
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[MAIN UNIT]

REF. NO.	ORDER NO.		ESCRIPTION		REF. NO.	ORDER NO.	ם	ESCRIPTION
								FD (-0.5)
R59	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)		R126	7030003240	S.RESISTOR	ERJ3GEYJ 220 V (22 Ω)
R60	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)		R127	7030003510	S.RESISTOR	ERJ3GEYJ 392 V (3.9 kΩ)
761	7030003760	S.RESISTOR	ERJ3GEYJ 474 V (470 kΩ)		R128	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R62	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)		R129	7030003760	S.RESISTOR	ERJ3GEYJ 474 V (470 kΩ)
R63	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	ll	R130	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
₹64	7310002600	S.TRIMMER	RV-110		R131	7510000830	S.THERMISTOR	NTCCF2012 3EH 471KC-7
			(RH03A3AS4X0AA)473	i	R132	7030003330	S.RESISTOR	ERJ3GEYJ 121 V (120 Ω)
R65	7030003580	S.RESISTOR	ERJ3GEYJ 153 V (15 kΩ)		R133	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R66	7310002760	S.TRIMMER	RV-152		R134	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
	-		(RH03A3AJ4X0HA)223		R135	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
₹67	7030003340	S.RESISTOR	ERJ3GEYJ 151 V (150 Ω)		R136	7310002690	S.TRIMMER	RV-145
₹68	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)					(RH03A3A13X0CA)102
R69	7030003840	S.RESISTOR	ERJ3GEYJ 225 V (2.2 MΩ)		R137	7030003360	S.RESISTOR	ERJ3GEYJ 221 V (220 Ω)
770	7030003760	S.RESISTOR	ERJ3GEYJ 474 V (470 kΩ)		R138	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
371	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)		R139	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)
372	7310002760	S.TRIMMER	RV-152		R140	7030003500	S.RESISTOR	ERJ3GEYJ 332 V (3.3 kΩ)
			(RH03A3AJ4X0HA)223		R141	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)
773	7030003590	S.RESISTOR	ERJ3GEYJ 183 V (18 kΩ)		R142	7510000890	S.THERMISTOR	NTCCF2012 3NH 153KC-7
R74	7310002690	S.TRIMMER	RV-145	l	R143	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
		İ	(RH03A3A13X0CA)102		R144	7030003610	S.RESISTOR	ERJ3GEYJ 273 V (27 kΩ)
375	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	l l	R145	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kQ)
R76	7030003760	S.RESISTOR	ERJ3GEYJ 474 V (470 kΩ)		R146	7030003760	S.RESISTOR	ERJ3GEYJ 474 V (470 KΩ)
377	7510000870	S.THERMISTOR	NTCCF2012 3FH 332KC-T		R147	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
R78	7030003840	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)		R148	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)
179	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kQ)		R149	7030003810	S.RESISTOR	ERJ3GEYJ 273 V (27 kΩ)
R80	7310002760	S.TRIMMER	RV-152		R150	7030003460	S.RESISTOR	ERJ3GEYJ 152 V (1.5 kQ)
.50		J	(RH03A3AJ4X0HA)223		R151	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kQ)
R81	7030003820	S.RESISTOR	ERJ3GEYJ 333 V (33 kΩ)		R152	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
182	7030003620	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)		R153	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
70 <i>2</i> 783	7030003780	S.RESISTOR	ERJ3GEYJ 474 V (470 kΩ)		R154	7030003320	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
784	7510000870	S.THERMISTOR	NTCCF2012 3FH 332KC-T		R155	7030003720	S.RESISTOR	ERJ3GEYJ 224 V (220 kQ)
104 185	7030003840	S.RESISTOR	ERJ3GEYJ 473 V (47 kQ)	ll	R156	7310002740	S.TRIMMER	RV-150
	į.	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)		11130	7310002740	J. ITHIMINILIT	(RH03A3A14X0FC)103
786 707	7030003840	3	RV-152		R157	7030003720	S.RESISTOR	ERJ3GEYJ 224 V (220 kΩ
₹87	7310002760	S.TRIMMER			R158		i .	RV-150
200	700000000	o projetop	(RH03A3AJ4X0HA)223	ll	M138	7310002740	S.TRIMMER	
R88	7030003620	S.RESISTOR	ERJ3GEYJ 333 V (33 kΩ)	l	D150	7020002240	e DECISTOR	(RH03A3A14X0FC)103
789	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)		R159	7030003340	S.RESISTOR	ERJ3GEYJ 151 V (150 Ω)
R90	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)		R165	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R91	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)		R166	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
792	7310002720	S.TRIMMER	RV-148		R167	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
	1		(RH03A3AS3X0DA)472		R168	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ
R93	7030003460	S.RESISTOR	ERJ3GEYJ 152 V (1.5 kΩ)		R169	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R94	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)		R170	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)
₹95	7030003800	S.RESISTOR	ERJ3GEYJ 105 V (1 MΩ)		R171	7030003490	S.RESISTOR	ERJ3GEYJ 272 V (2.7 kΩ)
R96	7010005220	RESISTOR	ELR20J 10 M Ω		R172	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R97	7030003800	S.RESISTOR	ERJ3GEYJ 105 V (1 MΩ)		R173	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R98	7030003340	S.RESISTOR	ERJ3GEYJ 151 V (150 Ω)	ll	R174	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
₹99	7030003490	S.RESISTOR	ERJ3GEYJ 272 V (2.7 kΩ)		R175	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)
₹100	7310002770	S.TRIMMER	RV-153	ll	R176	7030003580	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
			(RH03A3AN4X02A)333		R178	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
₹101	7030003800	S.RESISTOR	ERJ3GEYJ 105 V (1 MΩ)	ll	R179	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
7102	7030003800	S.RESISTOR	ERJ3GEYJ 105 V (1 MΩ)	ll	R180	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R103	7030003800	S.RESISTOR	ERJ3GEYJ 105 V (1 MΩ)		R181	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R104	7030003490	S.RESISTOR	ERJ3GEYJ 272 V (2.7 kΩ)	l l	R182	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R105	7310002770	S.TRIMMER	RV-153		R183	7410000950	S.ARRAY	EXB-V8V 102JV
	1	İ	(RH03A3AN4X02A)333		R184	7410000950	S.ARRAY	EXB-V8V 102JV
R106	7030003620	S.RESISTOR	ERJ3GEYJ 333 V (33 kΩ)		R187	7030003530	S.RESISTOR	ERJ3GEYJ 562 V (5.6 kΩ)
3107	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)		R188	7030003460	S.RESISTOR	ERJ3GEYJ 152 V (1.5 kΩ)
R108	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kQ)		R189	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
1100	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)		R190	7030003470	S.RESISTOR	ERJ3GEYJ 182 V (1.8 kΩ)
₹110	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)		R191	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)
1111	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kQ)	l l	R192	7030003340	S.RESISTOR	ERJ3GEYJ 151 V (150 Ω)
1112	7030003480	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)		R193	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kQ)
1113	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)		R194	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kQ
1113	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	l l	R195	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
1114 1115	7010004530	RESISTOR	R20J 470 kΩ	ı	R196	7030003480	S.RESISTOR	ERJ3GEYJ 563 V (56 kΩ)
	7010004530	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	l İ	R190	7030003500	S.RESISTOR	ERJ3GEYJ 332 V (3.3 kQ)
1116		1	ERJ3GEYJ 582 V (5.8 kQ)		R197	I .		• •
1117	7030003530	S.RESISTOR	,		R198	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kQ)
R118	7030003340	S.RESISTOR	ERJ3GEYJ 151 V (150 Ω)			7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R119	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)		R200	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R120	7030003280	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)		R201	7030003540	S.RESISTOR	ERJ3GEYJ 682 V (8.8 kΩ)
R121	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)		R202	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
1122	7030003840	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)		R203	7030003580	S.RESISTOR	ERJ3GEYJ 153 V (15 kQ)
7123	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)		R204	7310002770	S.TRIMMER	RV-153
	17020002480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)	ıl		1	1	(RH03A3AN4X02A)333
R124 R125	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)		R205	7510000860	S.THERMISTOR	NTCCF2012 3FH 222KC-

[MAIN UNIT]

REF.	ORDER NO.	DESCRIPTION		
R206 R207	7510000910 7310002590	S.THERMISTOR S.TRIMMER	NTCCF2012 4AH 473KC-T RV-109 (RH03A3AJ3X0BA)222	
R208	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	
R209	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	
R210	7030003760	S.RESISTOR	ERJ3GEYJ 474 V (470 kΩ)	
R211	7030003790	S.RESISTOR	ERJ3GEYJ 824 V (820 kΩ)	
R212	7310002740	S.TRIMMER	RV-150 (RH03A3A14X0FC)103	
R213	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	
R214	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	
R215 R216	7030003560 7030003560	S.RESISTOR S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 103 V (10 kΩ)	
R217	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)	
R218	7030003510	S.RESISTOR	ERJ3GEYJ 392 V (3.9 kΩ)	
R219	7030003800	S.RESISTOR	ERJ3GEYJ 105 V (1 MΩ)	
R220 R221	7030003800 7030003560	S.RESISTOR S.RESISTOR	ERJ3GEYJ 105 V (1 MQ) ERJ3GEYJ 103 V (10 kQ)	
R222	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	
R223	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	
R224	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	
R225 R226	7030003440 7030003560	S.RESISTOR S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 103 V (10 kΩ)	
R227	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	
R228	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)	
R229	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)	
R230	7310002740	S.TRIMMER	RV-150 (RH03A3A14X0FC)103	
R231	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)	
R232	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	
R233	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)	
R234	7030003510	S.RESISTOR S.RESISTOR	ERJ3GEYJ 392 V (3.9 kΩ) ERJ3GEYJ 121 V (120 Ω)	
R235 R236	7030003330	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	
R237	7510000890	S.THERMISTOR	NTCCF2012 3NH 153KC-T	
R239	7310002600	S.TRIMMER	RV-110 (RH03A3AS4X0AA)473	
R240	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	
R241 R242	7030003400 7030003320	S.RESISTOR S.RESISTOR	ERJ3GEYJ 471 V (470 Ω) ERJ3GEYJ 101 V (100 Ω)	
R243	7030003330	S.RESISTOR	ERJ3GEYJ 121 V (120 Ω)	
R244	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	
R245	7030003580	S.RESISTOR	ERJ3GEYJ 153 V (15 kΩ)	
R246 R247	7030003320 7030003640	S.RESISTOR S.RESISTOR	ERJ3GEYJ 101 V (100 Ω) ERJ3GEYJ 473 V (47 kΩ)	
R254	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	
R255	7030003500	\$.RESISTOR	ERJ3GEYJ 332 V (3.3 kΩ)	
R256	7030003590	S.RESISTOR	ERJ3GEYJ 183 V (18 kΩ)	
R257 R258	7030003600 7030003560	S.RESISTOR S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ) ERJ3GEYJ 103 V (10 kΩ)	
R259	7030003300	S.RESISTOR	ERJ3GEYJ 333 V (33 kΩ)	
R260	7310002840	S.TRIMMER	RV-160 (RH03A3A16)105	
R261	7030003590	S.RESISTOR	ERJ3GEYJ 183 V (18 kΩ)	
R262 R263	7030003680 7310002720	S.RESISTOR S.TRIMMER	ERJ3GEYJ 104 V (100 kΩ) RV-148	
1			(RH03A3AS3X0DA)472	
R264	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)	
R265	7030003840	S.RESISTOR S.RESISTOR	ERJ3GEYJ 225 V (2.2 MΩ) ERJ3GEYJ 155 V (1.5 MΩ)	
R266 R267	7030003820 7030003760	S.RESISTOR	ERJ3GEYJ 474 V (470 kΩ)	
R268	7310002740	S.TRIMMER	RV-150	
R269	7030003560	S.RESISTOR	(RH03A3A14X0FC)103 ERJ3GEYJ 103 V (10 kΩ)	
R270	7030003300	S.RESISTOR	ERJ3GEYJ 225 V (2.2 MΩ)	
R271	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	
R272	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kQ)	
R273 R274	7030003600 7030003560	S.RESISTOR S.RESISTOR	ERJ3GEYJ 223 V (22 ΚΩ) ERJ3GEYJ 103 V (10 ΚΩ)	
R274	7030003360	S.RESISTOR	ERJ3GEYJ 105 V (1 MΩ)	
R276	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	
R277	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	
R279 R280	7030003480 7030003600	S.RESISTOR S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ) ERJ3GEYJ 223 V (22 kΩ)	
R281	7030003800	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)	
R282	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)	
R283	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)	

R284 7030003840 S.RESISTOR ERJ3GEYJ 473 V (47 kQ) S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R286 7030003800 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R286 703003800 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R286 703003800 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R287 703003800 S.RESISTOR ERJ3GEYJ 104 V (100 kQ) R281 703003800 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R281 703003800 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R282 7030003800 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R282 7030003800 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R283 7030003800 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R285 7030003800 S.RESISTOR ERJ3GEYJ 103 V (100 kQ) R287 7030003800 S.RESISTOR ERJ3GEYJ 104 V (100 kQ) R287 7030003800 S.RESISTOR ERJ3GEYJ 104 V (100 kQ) R287 7030003800 S.RESISTOR ERJ3GEYJ 473 V (47 kQ) R301 7030003800 S.RESISTOR ERJ3GEYJ 473 V (47 kQ) R302 7030003800 S.RESISTOR ERJ3GEYJ 473 V (47 kQ) R302 7030003800 S.RESISTOR ERJ3GEYJ 473 V (47 kQ) R303 7030003800 S.RESISTOR ERJ3GEYJ 473 V (47 kQ) S.RESISTOR ERJ3GEYJ 105 V (1 kQ) S	REF.	ORDER NO.		DESCRIPTION
R285 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R286 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R286 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R286 703000360 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R291 703000360 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R292 703000360 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R293 703000360 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R294 7030003560 S.RESISTOR ERJ3GEYJ 104 V (100 kQ) R295 7030003560 S.RESISTOR ERJ3GEYJ 104 V (100 kQ) R296 703000360 S.RESISTOR ERJ3GEYJ 104 V (100 kQ) R300 7030003840 S.RESISTOR ERJ3GEYJ 473 V (47 kQ) R301 7030003840 S.RESISTOR ERJ3GEYJ 473 V (47 kQ) R304 7030003840 S.RESISTOR ERJ3GEYJ 105 V (10 kQ) R306 7030003840 S.RESISTOR ERJ3GEYJ 105 V (10 kQ) R311 7030003840 S.RESISTOR ERJ3GEYJ 105 V (10 kQ)			S RESISTOR	FRI3GEV I 473 V (47 40)
R288				, ,
R288 7030003600 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R290 7030003600 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R291 7030003600 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R292 7030003600 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R294 7030003600 S.RESISTOR ERJ3GEYJ 104 V (100 kQ) R295 7030003600 S.RESISTOR ERJ3GEYJ 104 V (100 kQ) R296 7030003800 S.RESISTOR ERJ3GEYJ 104 V (100 kQ) R300 7030003800 S.RESISTOR ERJ3GEYJ 104 V (100 kQ) R301 7030003800 S.RESISTOR ERJ3GEYJ 473 V (47 kQ) R302 703000320 S.RESISTOR ERJ3GEYJ 473 V (47 kQ) R303 7030003300 S.RESISTOR ERJ3GEYJ 472 V (47 kQ) R304 703000350 S.RESISTOR ERJ3GEYJ 472 V (47 kQ) R305 703000360 S.RESISTOR ERJ3GEYJ 472 V (47 kQ) R306 703000360 S.RESISTOR ERJ3GEYJ 102 V (10 kQ) R307 703000360 S.RESISTOR ERJ3GEYJ 102 V (10 kQ)				
R280 7030003860 S.RESISTOR ERJ3GEYJ 1473 V (47 kg) R291 7030003860 S.RESISTOR ERJ3GEYJ 473 V (47 kg) R292 7030003860 S.RESISTOR ERJ3GEYJ 173 V (10 kg) R293 7030003860 S.RESISTOR ERJ3GEYJ 104 V (100 kg) R295 7030003800 S.RESISTOR ERJ3GEYJ 183 V (18 kg) R296 7030003800 S.RESISTOR ERJ3GEYJ 183 V (18 kg) R297 7030003800 S.RESISTOR ERJ3GEYJ 173 V (47 kg) R300 7030003840 S.RESISTOR ERJ3GEYJ 473 V (47 kg) R301 7030003840 S.RESISTOR ERJ3GEYJ 473 V (47 kg) R302 7030003800 S.RESISTOR ERJ3GEYJ 473 V (47 kg) R303 7030003800 S.RESISTOR ERJ3GEYJ 105 V (10 kg) R306 7030003800 S.RESISTOR ERJ3GEYJ 105 V (1 kg) R307 7030003800 S.RESISTOR ERJ3GEYJ 105 V (1 kg) R308 7300003800 S.RESISTOR ERJ3GEYJ 105 V (1 kg) R311 7030003840 S.RESISTOR ERJ3GEYJ 105 V (1 kg)	R287	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)
R290 7030003400 S.RESISTOR ERJ3GEYJ 103 Y (10 kg) R292 7030003840 S.RESISTOR ERJ3GEYJ 103 Y (10 kg) R292 7030003840 S.RESISTOR ERJ3GEYJ 103 Y (10 kg) R294 7030003800 S.RESISTOR ERJ3GEYJ 183 Y (18 kg) R296 7030003840 S.RESISTOR ERJ3GEYJ 104 Y (100 kG) R300 7030003840 S.RESISTOR ERJ3GEYJ 173 Y (47 kG) R301 7030003840 S.RESISTOR ERJ3GEYJ 473 Y (47 kG) R302 7030003840 S.RESISTOR ERJ3GEYJ 473 Y (47 kG) R303 703000320 S.RESISTOR ERJ3GEYJ 473 Y (47 kG) R304 703000350 S.RESISTOR ERJ3GEYJ 170 Y (10 kG) R305 703000360 S.RESISTOR ERJ3GEYJ 105 Y (1 kG) R306 703000380 S.RESISTOR ERJ3GEYJ 105 Y (1 kG) R307 730000380 S.RESISTOR ERJ3GEYJ 107 Y (10 kQ) R311 703000380 S.RESISTOR ERJ3GEYJ 107 Y (10 kQ) R311 703000340 S.RESISTOR ERJ3GEYJ 17 Y (47 kQ) <td></td> <td></td> <td></td> <td>, ,</td>				, ,
R291 7030003600 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R292 7030003600 S.RESISTOR ERJ3GEYJ 133 V (17 kQ) R294 7030003600 S.RESISTOR ERJ3GEYJ 133 V (18 kQ) R295 7030003600 S.RESISTOR ERJ3GEYJ 183 V (18 kQ) R297 7030003600 S.RESISTOR ERJ3GEYJ 1473 V (47 kQ) R300 703000360 S.RESISTOR ERJ3GEYJ 473 V (47 kQ) R301 703000360 S.RESISTOR ERJ3GEYJ 473 V (47 kQ) R302 703000320 S.RESISTOR ERJ3GEYJ 473 V (47 kQ) R303 703000350 S.RESISTOR ERJ3GEYJ 101 V (100 Q) R304 703000350 S.RESISTOR ERJ3GEYJ 105 V (1 MQ) R305 703000360 S.RESISTOR ERJ3GEYJ 105 V (1 MQ) R306 703000360 S.RESISTOR ERJ3GEYJ 105 V (1 MQ) R307 703000360 S.RESISTOR ERJ3GEYJ 107 V (1 kQ) R307 703000360 S.RESISTOR ERJ3GEYJ 107 V (1 kQ) R310 703000360 S.RESISTOR ERJ3GEYJ 107 V (1 kQ)				
R282 7030003840 S.RESISTOR ERJ3GEYJ 104 V (100 k2) R284 7030003500 S.RESISTOR ERJ3GEYJ 183 V (18 k2) R285 7030003500 S.RESISTOR ERJ3GEYJ 183 V (18 k2) R286 7030003840 S.RESISTOR ERJ3GEYJ 147 V (100 k2) R300 7030003840 S.RESISTOR ERJ3GEYJ 473 V (47 k2) R301 7030003840 S.RESISTOR ERJ3GEYJ 473 V (47 k2) R301 7030003840 S.RESISTOR ERJ3GEYJ 473 V (47 k2) R302 7030003800 S.RESISTOR ERJ3GEYJ 473 V (47 k2) R303 7030003800 S.RESISTOR ERJ3GEYJ 472 V (4.7 k2) R306 7030003800 S.RESISTOR ERJ3GEYJ 105 V (1 M2) R306 7030003800 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R307 7030003800 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R310 7030003800 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R311 7030003800 S.RESISTOR ERJ3GEYJ 104 V (100 kQ) R311 7030003800 S.RESISTOR ERJ3GEYJ 104 V (100 kQ)<				
R293 7030003800 S.RESISTOR ERJ3GEYJ 104 V (100 KG)				•
R294 7030003590 S.RESISTOR ERJ3GEYJ 183 V (18 kQ) R296 7030003800 S.RESISTOR ERJ3GEYJ 562 V (5.6 kQ) R297 7030003840 S.RESISTOR ERJ3GEYJ 473 V (47 kQ) R300 7030003840 S.RESISTOR ERJ3GEYJ 473 V (47 kQ) R301 7030003840 S.RESISTOR ERJ3GEYJ 473 V (47 kQ) R302 7030003800 S.RESISTOR ERJ3GEYJ 473 V (47 kQ) R303 7030003800 S.RESISTOR ERJ3GEYJ 223 V (22 kQ) R306 7030003800 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R307 7030003800 S.RESISTOR ERJ3GEYJ 105 V (11 kQ) R308 7030003800 S.RESISTOR ERJ3GEYJ 105 V (10 kQ) R309 7030003800 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R311 7030003400 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R312 7030003800 S.RESISTOR ERJ3GEYJ 473 V (47 kQ) R312 7030003800 S.RESISTOR ERJ3GEYJ 173 V (47 kQ) R312 7030003800 S.RESISTOR ERJ3GEYJ 173 V (47 kQ) <td></td> <td>i</td> <td></td> <td></td>		i		
R298		7030003590	S.RESISTOR	
R297 7030003840 S.RESISTOR				
R300 7030003840 S.RESISTOR ERJ3GEYJ 473 V (47 kQ) R302 7030003840 S.RESISTOR ERJ3GEYJ 173 V (47 kQ) R302 7030003800 S.RESISTOR ERJ3GEYJ 101 V (100 Q) R304 7030003800 S.RESISTOR ERJ3GEYJ 105 V (1 MQ) R305 7030003800 S.RESISTOR ERJ3GEYJ 105 V (1 MQ) R307 7030003800 S.RESISTOR ERJ3GEYJ 105 V (1 MQ) R308 7310002770 S.TRIMMER RV-153 R309 7030003840 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R311 7030003840 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) R311 7030003840 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) R312 7030003840 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R314 7030003460 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R315 7030003460 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R318 7030003460 S.RESISTOR ERJ3GEYJ 107 V (47 kQ) R318 7030003460 S.RESISTOR ERJ3GEYJ 107 V (47 kQ)				, ,
R301				
R302 7030003820 S.RESISTOR				, ,
R304 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kQ)				
R305 7030003800 S.RESISTOR ERJ3GEYJ 105 V (1 MΩ) S.RESISTOR S.RESISTOR ERJ3GEYJ 173 V (47 MΩ) S.RESISTOR ERJ3GEYJ 173 V (47 MΩ) S.RESISTOR ERJ3GEYJ 173 V (47 MΩ) S.RESISTOR ERJ3GEYJ 102 V (1 MΩ) S.RESISTOR ERJ3GEYJ 103 V (10 MΩ) S.RESISTOR ERJ3GEYJ 103 V (10 MΩ) S.RESISTOR ERJ3GEYJ 104 V (100 MΩ) S.RESISTOR ERJ3GEYJ 104 V (100 MΩ) S.RESISTOR ERJ3GEYJ 151 V (150 MΩ) S.RESISTOR ERJ3GEYJ 151 V (150 MΩ) S.RESISTOR ERJ3GEYJ 152 V (1.5 MΩ) S.RESISTOR ERJ3GEYJ 152 V (1.5 MΩ) S.RESISTOR ERJ3GEYJ 152 V (1.5 MΩ) S.RESISTOR ERJ3GEYJ 162 V (1.6 MΩ) S.RESISTOR ERJ3GEYJ 162 V (1.6 MΩ) S.RESISTOR ERJ3GEYJ 162 V (1.6 MΩ) S.RESISTOR ERJ3GEYJ 162 V (1.6 MΩ) S.RESISTOR ERJ3GEYJ 162 V (1.6 MΩ) S.RESISTOR ERJ3GEYJ 162 V (1.6 MΩ) S.RESISTOR ERJ3GEYJ 162 V (1.6 MQ) S.RESISTOR ERJ3GEYJ 163 V (16 MQ)	R303	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)
R306 7030003800 S.RESISTOR ERJ3GEYJ 105 V (1 MQ) R308 730002770 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R309 7300023840 S.RESISTOR ERJ3GEYJ 473 V (47 kQ) R310 7030003840 S.RESISTOR ERJ3GEYJ 473 V (47 kQ) R311 7030003840 S.RESISTOR ERJ3GEYJ 473 V (47 kQ) R312 7030003860 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) R313 7030003860 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R314 703000340 S.RESISTOR ERJ3GEYJ 152 V (1.5 kQ) R315 703000340 S.RESISTOR ERJ3GEYJ 152 V (1.5 kQ) R316 703000340 S.RESISTOR ERJ3GEYJ 173 V (47 kQ) R317 703000340 S.RESISTOR ERJ3GEYJ 173 V (47 kQ) R318 703000340 S.RESISTOR ERJ3GEYJ 173 V (47 kQ) R321 703000340 S.RESISTOR ERJ3GEYJ 173 V (47 kQ) R321 703000340 S.RESISTOR ERJ3GEYJ 23 V (22 kQ) R322 703000340 S.RESISTOR ERJ3GEYJ 104 V (100 kQ) </td <td></td> <td></td> <td>*****</td> <td>• • •</td>			*****	• • •
R307 7030003560 S.RESISTOR S.TRIMMER RV-153				
R308 7310002770 S.TRIMMER RV-153 (RH03A3AN4X02A)333 R309 7030003640 S.RESISTOR ERJ3GEYJ 473 V (47 kΩ) R310 7030003640 S.RESISTOR ERJ3GEYJ 473 V (47 kΩ) R311 703000360 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R313 703000360 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R314 703000340 S.RESISTOR ERJ3GEYJ 151 V (150 Ω) R316 703000360 S.RESISTOR ERJ3GEYJ 152 V (1.5 kQ) R317 703000360 S.RESISTOR ERJ3GEYJ 162 V (1.5 kQ) R318 703000360 S.RESISTOR ERJ3GEYJ 130 V (10 kQ) R318 703000360 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R318 703000360 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R320 703000360 S.RESISTOR ERJ3GEYJ 104 V (100 kQ) R321 703000360 S.RESISTOR ERJ3GEYJ 104 V (100 kQ) R322 703000360 S.RESISTOR ERJ3GEYJ 173 V (47 kQ) R324 703000350 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) <				
R309 7030003840 S.RESISTOR ERJ3GEYJ 473 V (47 kG) R311 7030003840 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R312 703000380 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R314 703000380 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R315 703000380 S.RESISTOR ERJ3GEYJ 151 V (150 Q) R316 703000380 S.RESISTOR ERJ3GEYJ 151 V (150 Q) R316 7030003840 S.RESISTOR ERJ3GEYJ 151 V (150 Q) R316 7030003840 S.RESISTOR ERJ3GEYJ 152 V (1.5 kQ) R317 7030003840 S.RESISTOR ERJ3GEYJ 152 V (1.5 kQ) R318 7030003840 S.RESISTOR ERJ3GEYJ 182 V (1.8 kQ) R319 7030003840 S.RESISTOR ERJ3GEYJ 182 V (1.8 kQ) R321 7030003840 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R322 7030003840 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R322 7030003840 S.RESISTOR ERJ3GEYJ 223 V (22 kQ) R322 7030003840 S.RESISTOR ERJ3GEYJ 223 V (22 kQ) R324 7030003840 S.RESISTOR ERJ3GEYJ 223 V (22 kQ) R324 7030003840 S.RESISTOR ERJ3GEYJ 223 V (22 kQ) R324 7030003840 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) S.RESISTOR ERJ3GEYJ 102 V (1 kQ) S.RESISTOR ERJ3GEYJ 102 V (1 kQ) S.RESISTOR ERJ3GEYJ 102 V (1 kQ) S.RESISTOR ERJ3GEYJ 102 V (1 kQ) S.RESISTOR ERJ3GEYJ 102 V (1 kQ) S.RESISTOR ERJ3GEYJ 102 V (1 kQ) S.RESISTOR ERJ3GEYJ 102 V (1 kQ) S.RESISTOR ERJ3GEYJ 102 V (1 kQ) S.RESISTOR ERJ3GEYJ 103 V (10 kQ) S.RESISTOR ERJ3GEYJ 103 V (10 kQ) S.RESISTOR ERJ3GEYJ 103 V (10 kQ) S.RESISTOR ERJ3GEYJ 103 V (10 kQ) S.RESISTOR ERJ3GEYJ 103 V (10 kQ) S.RESISTOR ERJ3GEYJ 103 V (10 kQ) S.RESISTOR ERJ3GEYJ 103 V (10 kQ) S.RESISTOR ERJ3GEYJ 103 V (10 kQ) S.RESISTOR ERJ3GE				
R310				
R311	R309	7030003640	S.RESISTOR	
R312 7030003680 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R313 7030003400 S.RESISTOR ERJ3GEYJ 151 V (150 Q) R315 7030003400 S.RESISTOR ERJ3GEYJ 152 V (1.5 kΩ) R316 7030003400 S.RESISTOR ERJ3GEYJ 152 V (1.5 kΩ) R317 7030003400 S.RESISTOR ERJ3GEYJ 162 V (1.8 kΩ) R318 7030003600 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R321 7030003800 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R322 7030003800 S.RESISTOR ERJ3GEYJ 222 V (2.2 kΩ) R323 7030003800 S.RESISTOR ERJ3GEYJ 222 V (2.2 kΩ) R324 7030003840 S.RESISTOR ERJ3GEYJ 222 V (2.2 kΩ) R325 7030003440 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R326 7030003400 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) R327 7030003400 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) R328 7030003400 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) R331 7030003400 S.RESISTOR ERJ3GEYJ 102 V (1 kQ)				
R313 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R315 7030003400 S.RESISTOR ERJ3GEYJ 1512 V (1.5 kQ) R316 7030003400 S.RESISTOR ERJ3GEYJ 152 V (1.5 kQ) R317 7030003400 S.RESISTOR ERJ3GEYJ 173 V (47 kQ) R318 7030003400 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R319 7030003640 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R320 7030003640 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R321 7030003600 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R322 7030003600 S.RESISTOR ERJ3GEYJ 222 V (2.2 kQ) R323 7030003600 S.RESISTOR ERJ3GEYJ 222 V (2.2 kQ) R324 7030003600 S.RESISTOR ERJ3GEYJ 223 V (22 kQ) R325 7030003400 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) R326 7030003400 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) R327 7030003400 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R328 7030003400 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R329 7030003400 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R320 7030003400 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R321 7030003400 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R322 7030003400 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) R333 7030003400 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) R334 7030003400 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) R335 7030003400 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) R336 7030003400 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R337 7030003400 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R338 7030003400 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R338 7030003400 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R334 7030003400 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R335 7030003400 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R341 7010004230 RESISTOR ERJ3GEYJ 103 V (10 kQ) R342 7030003400 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R343 7030003400 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R344 7030003400 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R345 7030003400 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R346 7030003400 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) R347		1		•
R314 7030003400 S.RESISTOR ERJ3GEYJ 151 V (150 Ω) R315 7030003400 S.RESISTOR ERJ3GEYJ 152 V (1.5 kQ) R316 7030003470 S.RESISTOR ERJ3GEYJ 473 V (47 kQ) R317 7030003470 S.RESISTOR ERJ3GEYJ 182 V (1.8 kQ) R318 7030003800 S.RESISTOR ERJ3GEYJ 173 V (47 kQ) R320 7030003800 S.RESISTOR ERJ3GEYJ 173 V (47 kQ) R321 7030003800 S.RESISTOR ERJ3GEYJ 222 V (2.2 kQ) R322 7030003800 S.RESISTOR ERJ3GEYJ 223 V (22 kQ) R323 7030003840 S.RESISTOR ERJ3GEYJ 223 V (22 kQ) R324 7030003840 S.RESISTOR ERJ3GEYJ 473 V (47 kQ) R325 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R326 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R327 7030003640 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R328 7030003400 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R331 7030003400 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) </td <td></td> <td></td> <td></td> <td></td>				
R315 7030003460 S.RESISTOR ERJ3GEYJ 152 V (1.5 kΩ) R316 7030003400 S.RESISTOR ERJ3GEYJ 182 V (1.8 kΩ) R317 7030003400 S.RESISTOR ERJ3GEYJ 182 V (1.8 kΩ) R318 7030003600 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R320 7030003800 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R321 7030003800 S.RESISTOR ERJ3GEYJ 222 V (2.2 kΩ) R322 7030003800 S.RESISTOR ERJ3GEYJ 223 V (22 kΩ) R323 7030003600 S.RESISTOR ERJ3GEYJ 473 V (47 kQ) R324 7030003400 S.RESISTOR ERJ3GEYJ 473 V (47 kQ) R325 7030003500 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) R326 703000350 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R327 703000350 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) R328 703000340 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) R329 703000350 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) R331 703000350 S.RESISTOR ERJ3GEYJ 102 V (1 kQ)				
R316 7030003840 S.RESISTOR ERJ3GEYJ 473 V (47 kQ) R317 7030003470 S.RESISTOR ERJ3GEYJ 182 V (1.8 kQ) R318 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R319 703000380 S.RESISTOR ERJ3GEYJ 173 V (47 kQ) R321 703000380 S.RESISTOR ERJ3GEYJ 223 V (22 kQ) R322 703000360 S.RESISTOR ERJ3GEYJ 223 V (22 kQ) R323 703000360 S.RESISTOR ERJ3GEYJ 223 V (22 kQ) R324 703000360 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R325 703000360 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R326 703000350 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R327 703000350 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R328 703000340 S.RESISTOR ERJ3GEYJ 472 V (47 kQ) R329 703000340 S.RESISTOR ERJ3GEYJ 472 V (47 kQ) R331 703000340 S.RESISTOR ERJ3GEYJ 101 V (10 Q) R332 703000340 S.RESISTOR ERJ3GEYJ 101 V (1 kQ)		1		
R318				-
R319 7030003640 S.RESISTOR ERJ3GEYJ 473 V (47 kΩ) R320 7030003480 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R321 7030003400 S.RESISTOR ERJ3GEYJ 222 V (2.2 kΩ) R322 7030003600 S.RESISTOR ERJ3GEYJ 223 V (22 kΩ) R324 7030003440 S.RESISTOR ERJ3GEYJ 223 V (22 kΩ) R325 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R326 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R327 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R328 7030003440 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R329 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) R331 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) R332 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) R333 703000340 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) R334 703000340 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R335 703000340 S.RESISTOR ERJ3GEYJ 103 V (10 kQ)	R317	7030003470	S.RESISTOR	
R320 7030003880 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R321 7030003480 S.RESISTOR ERJ3GEYJ 222 V (2.2 kΩ) R322 7030003600 S.RESISTOR ERJ3GEYJ 223 V (22 kΩ) R323 7030003640 S.RESISTOR ERJ3GEYJ 563 V (56 kΩ) R325 7030003440 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R326 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R327 7030003440 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R328 7030003440 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R330 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) R331 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) R332 7030003400 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) R333 7030003400 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) R334 7030003400 S.RESISTOR ERJ3GEYJ 101 V (100 Ω) R335 7030003400 S.RESISTOR ERJ3GEYJ 101 V (10 kQ) R336 7030003400 S.RESISTOR ERJ3GEYJ 102 V (1 kQ)		l		
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R340 7030003680 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R341 7010004230 RESISTOR R20J 2.2 kΩ R342 7030003640 S.RESISTOR ERJ3GEYJ 473 V (47 kΩ) R343 7030003480 S.RESISTOR ERJ3GEYJ 222 V (2.2 kΩ) R344 7030003600 S.RESISTOR ERJ3GEYJ 223 V (22 kΩ) R345 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R346 7030003440 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R347 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R348 7030003440 S.RESISTOR ERJ3GEYJ 223 V (22 kΩ) R350 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R351 703000340 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R352 7030003520 S.RESISTOR ERJ3GEYJ 102 V (4.7 kΩ) R353 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R354 7030003520 S.RESISTOR ERJ3GEYJ 331 V (330 Ω) R355 703000360 S.RESISTOR ERJ3GEYJ 331 V (300 Ω)			F	•
R341 7010004230 RESISTOR R20J 2.2 kΩ R342 7030003640 S.RESISTOR ERJ3GEYJ 473 V (47 kΩ) R343 7030003480 S.RESISTOR ERJ3GEYJ 222 V (2.2 kΩ) R344 7030003600 S.RESISTOR ERJ3GEYJ 223 V (22 kΩ) R345 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R346 7030003440 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R347 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R348 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R350 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R351 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R352 7030003520 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R353 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R354 7030003520 S.RESISTOR ERJ3GEYJ 331 V (300 Ω) R355 703000380 S.RESISTOR ERJ3GEYJ 331 V (300 Ω) R356 7030003810 S.RESISTOR ERJ3GEYJ 273 V (27 kΩ) <				,
R342 7030003640 S.RESISTOR ERJ3GEYJ 473 V (47 kΩ) R343 7030003480 S.RESISTOR ERJ3GEYJ 222 V (2.2 kΩ) R344 7030003600 S.RESISTOR ERJ3GEYJ 223 V (22 kΩ) R345 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R346 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R347 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R348 7030003440 S.RESISTOR ERJ3GEYJ 223 V (22 kΩ) R350 703000340 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R351 703000340 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R352 7030003520 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R353 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R354 7030003520 S.RESISTOR ERJ3GEYJ 331 V (300 Ω) R355 7030003520 S.RESISTOR ERJ3GEYJ 331 V (300 Ω) R355 703000360 S.RESISTOR ERJ3GEYJ 373 V (27 kΩ) R356 7030003610 S.RESISTOR ERJ3GEYJ 273 V (27 kΩ)				, ,
R343 7030003480 S.RESISTOR ERJ3GEYJ 222 V (2.2 kΩ) R344 7030003600 S.RESISTOR ERJ3GEYJ 223 V (22 kΩ) R345 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R346 703000360 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R347 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R348 7030003440 S.RESISTOR ERJ3GEYJ 223 V (22 kΩ) R350 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R351 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R352 7030003520 S.RESISTOR ERJ3GEYJ 102 V (4.7 kΩ) R353 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R354 7030003520 S.RESISTOR ERJ3GEYJ 372 V (4.7 kΩ) R355 7030003520 S.RESISTOR ERJ3GEYJ 372 V (4.7 kΩ) R355 7030003520 S.RESISTOR ERJ3GEYJ 372 V (4.7 kΩ) R356 703000340 S.RESISTOR ERJ3GEYJ 372 V (4.7 kΩ) R357 703000340 S.RESISTOR ERJ3GEYJ 372 V (27 kΩ) <td></td> <td></td> <td></td> <td></td>				
R345 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R346 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R347 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) R348 7030003440 S.RESISTOR ERJ3GEYJ 223 V (22 kQ) R350 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) R351 7030003440 S.RESISTOR ERJ3GEYJ 223 V (22 kQ) R352 7030003440 S.RESISTOR ERJ3GEYJ 223 V (22 kQ) R353 7030003520 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) R354 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kQ) R354 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kQ) R355 703000380 S.RESISTOR ERJ3GEYJ 372 V (300 Q) R356 703000340 S.RESISTOR ERJ3GEYJ 273 V (27 kQ) R357 703000340 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) R358 7030003360 S.RESISTOR ERJ3GEYJ 221 V (220 Q) R359 7030003550 S.RESISTOR ERJ3GEYJ 322 V (8.2 kQ)	R343	7030003480	S.RESISTOR	, ,
R346 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kQ) R347 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) R348 7030003600 S.RESISTOR ERJ3GEYJ 223 V (22 kQ) R350 7030003600 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) R351 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) R352 7030003520 S.RESISTOR ERJ3GEYJ 102 V (4.7 kQ) R353 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kQ) R354 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kQ) R355 703000380 S.RESISTOR ERJ3GEYJ 472 V (4.7 kQ) R356 7030003810 S.RESISTOR ERJ3GEYJ 331 V (330 Q) R357 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) R358 7030003360 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) R358 703000350 S.RESISTOR ERJ3GEYJ 221 V (220 Q) R359 703000350 S.RESISTOR ERJ3GEYJ 302 V (1 kQ)	R344	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)
R347 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R348 7030003600 S.RESISTOR ERJ3GEYJ 223 V (22 kΩ) R349 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R350 7030003600 S.RESISTOR ERJ3GEYJ 223 V (22 kΩ) R351 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R352 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R354 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R355 703000380 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R356 7030003810 S.RESISTOR ERJ3GEYJ 331 V (330 Ω) R357 7030003440 S.RESISTOR ERJ3GEYJ 273 V (27 kΩ) R358 7030003360 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R358 703000350 S.RESISTOR ERJ3GEYJ 221 V (220 Ω) R359 703000350 S.RESISTOR ERJ3GEYJ 221 V (220 Ω)				, ,
R348 7030003600 S.RESISTOR ERJ3GEYJ 223 V (22 kQ) R349 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) R350 7030003600 S.RESISTOR ERJ3GEYJ 223 V (22 kQ) R351 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) R352 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kQ) R354 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kQ) R355 703000380 S.RESISTOR ERJ3GEYJ 331 V (330 Q) R356 7030003810 S.RESISTOR ERJ3GEYJ 273 V (27 kQ) R357 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) R358 7030003360 S.RESISTOR ERJ3GEYJ 221 V (220 Q) R359 703000350 S.RESISTOR ERJ3GEYJ 221 V (220 Q)				
R348 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R350 7030003600 S.RESISTOR ERJ3GEYJ 223 V (22 kΩ) R351 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R352 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R353 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R354 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R355 703000380 S.RESISTOR ERJ3GEYJ 331 V (330 Ω) R356 7030003610 S.RESISTOR ERJ3GEYJ 273 V (27 kΩ) R357 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R358 7030003360 S.RESISTOR ERJ3GEYJ 221 V (220 Ω) R359 7030003550 S.RESISTOR ERJ3GEYJ 822 V (8.2 kΩ)				The state of the s
R350 7030003600 S.RESISTOR ERJ3GEYJ 223 V (22 kQ) R351 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) R352 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kQ) R353 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kQ) R354 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kQ) R355 7030003380 S.RESISTOR ERJ3GEYJ 331 V (330 Q) R356 7030003610 S.RESISTOR ERJ3GEYJ 273 V (27 kQ) R357 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kQ) R358 7030003360 S.RESISTOR ERJ3GEYJ 221 V (220 Q) R359 7030003550 S.RESISTOR ERJ3GEYJ 822 V (8.2 kQ)				, , , , ,
R351 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R352 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R353 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R354 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R355 7030003380 S.RESISTOR ERJ3GEYJ 373 V (300 Ω) R356 703000340 S.RESISTOR ERJ3GEYJ 273 V (27 kΩ) R357 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R358 7030003360 S.RESISTOR ERJ3GEYJ 221 V (220 Ω) R359 7030003550 S.RESISTOR ERJ3GEYJ 822 V (8.2 kΩ)				, ,
R353 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R354 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R355 7030003380 S.RESISTOR ERJ3GEYJ 331 V (330 Ω) R356 7030003610 S.RESISTOR ERJ3GEYJ 273 V (27 kΩ) R357 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R358 7030003360 S.RESISTOR ERJ3GEYJ 221 V (220 Ω) R359 7030003550 S.RESISTOR ERJ3GEYJ 822 V (8.2 kΩ)	1	7030003440		, ,
R354 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R355 7030003380 S.RESISTOR ERJ3GEYJ 331 V (330 Ω) R356 7030003610 S.RESISTOR ERJ3GEYJ 273 V (27 kΩ) R357 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R358 7030003360 S.RESISTOR ERJ3GEYJ 221 V (220 Ω) R359 7030003550 S.RESISTOR ERJ3GEYJ 822 V (8.2 kΩ)				
R355 7030003380 S.RESISTOR ERJ3GEYJ 331 V (330 Ω) R356 7030003610 S.RESISTOR ERJ3GEYJ 273 V (27 kQ) R357 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R358 7030003360 S.RESISTOR ERJ3GEYJ 221 V (220 Ω) R359 7030003550 S.RESISTOR ERJ3GEYJ 822 V (8.2 kΩ)				
R356 7030003610 S.RESISTOR ERJ3GEYJ 273 V (27 kΩ) R357 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R358 7030003360 S.RESISTOR ERJ3GEYJ 221 V (220 Ω) R359 7030003550 S.RESISTOR ERJ3GEYJ 822 V (8.2 kΩ)				,
R357 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R358 7030003360 S.RESISTOR ERJ3GEYJ 221 V (220 Ω) R359 7030003550 S.RESISTOR ERJ3GEYJ 822 V (8.2 kΩ)	1			
R358 7030003360 S.RESISTOR ERJ3GEYJ 221 V (220 Ω) R359 7030003550 S.RESISTOR ERJ3GEYJ 822 V (8.2 kΩ)				, ,
· · · · · · · · · · · · · · · · · · ·	R358			ERJ3GEYJ 221 V (220 Ω)
1/300		ľ	ŀ	
	H360	7030003550	S.HESISTOR	EHJ3GEYJ 822 V (8.2 kΩ)

[MAIN UNIT]

REF.	ORDER NO.	DESCRIPTION		
R361 R362	7030003680 7030003440	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 102 V (1 kΩ)	
R363	7210002460	TRIMMER	EVU-EL0EC7B13	
R364	7030003590	S.RESISTOR	ERJ3GEYJ 183 V (18 kΩ)	
R365	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	
R366	7030003800	S.RESISTOR	ERJ3GEYJ 105 V (1 MΩ) ERJ3GEYJ 102 V (1 kΩ)	
R367 R368	7030003440 7030003540	S.RESISTOR S.RESISTOR	ERJ3GEYJ 682 V (6.8 kQ)	
R369	7030003720	S.RESISTOR	ERJ3GEYJ 224 V (220 kQ)	
R370	7210002470	TRIMMER	EVU-EL0EC7B16 1MB	
R371	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ) ERJ3GEYJ 392 V (3.9 kΩ)	
R372 R373	7030003510 7030003400	S.RESISTOR S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)	
R374	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	
R375	7030003330	S.RESISTOR	ERJ3GEYJ 121 V (120 Q)	
R376 R378	7510000890 7310002800	S.THERMISTOR S.TRIMMER	NTCCF2012 3NH 153KC-T RV-110	
N376	7310002000	O. I I IIIIIIIII ET	(RH03A3AS4X0AA)473	
R379	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	
R380	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)	
R381 R382	7030003330 7030003320	S.RESISTOR S.RESISTOR	ERJ3GEYJ 121 V (120 Ω) ERJ3GEYJ 101 V (100 Ω)	
R383	7030003320	S.RESISTOR	ERJ3GEYJ 104 V (100 kQ)	
R384	7030003580	S.RESISTOR	ERJ3GEYJ 153 V (15 kΩ)	
R386	7030003760	S.RESISTOR	ERJ3GEYJ 474 V (470 kΩ)	
R387 R388	7030003780	S.RESISTOR S.RESISTOR	ERJ3GEYJ 474 V (470 kΩ) ERJ3GEYJ 101 V (100 Ω)	
R389	7030003520	S.RESISTOR	ERJ3GEYJ 333 V (33 kΩ)	
R390	7310002600	S.TRIMMER	RV-110	
Dags	7000000000	e prejetop	(RH03A3AS4X0AA)473	
R391 R392	7030003650 7030003500	S.RESISTOR S.RESISTOR	ERJ3GEYJ 583 V (58 kΩ) ERJ3GEYJ 332 V (3.3 kΩ)	
R393	7030003590	S.RESISTOR	ERJ3GEYJ 183 V (18 kΩ)	
R394	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)	
R395 R396	7030003560 7030003620	S.RESISTOR S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 333 V (33 kΩ)	
R397	7030003620	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	
R398	7030003220	S.RESISTOR	ERJ3GEYJ 150 V (15 Ω)	
R399	7030003500	S.RESISTOR	ERJ3GEYJ 332 V (3.3 kΩ)	
R400 R401	7030001090	S.RESISTOR S.RESISTOR	MCR50JZHJ 47 Ω (470) ERJ3GEYJ 101 V (100 Ω)	
R402	7510000920	S.THERMISTOR	NTCCF2012 4CH 104KC-T	
R403	7030003620	S.RESISTOR	ERJ3GEYJ 333 V (33 kΩ)	
R405	7310002600	S.TRIMMER	RV-110 (RH03A3AS4X0AA)473	
R407	7030003640	S.RESISTOR	(RH03A3A54A0AA)473 ERJ3GEYJ 473 V (47 kQ)	
R408	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	
R409	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kQ)	
R410 R411	7030003240	S.RESISTOR S.RESISTOR	ERJ3GEYJ 220 V (22 Ω) ERJ3GEYJ 332 V (3.3 kQ)	
R412	7030003300	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	
R413	7510000830	S.THERMISTOR	NTCCF2012 3EH 471KC-T	
R414	7030003330	S.RESISTOR	ERJ3GEYJ 121 V (120 Ω)	
R415 R416	7030003760 7030003640	S.RESISTOR S.RESISTOR	ERJ3GEYJ 474 V (470 kΩ) ERJ3GEYJ 473 V (47 kΩ)	
R417	7030003040	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	
R418	7030003620	S.RESISTOR	ERJ3GEYJ 333 V (33 kQ)	
R419	7310002840	S.TRIMMER	RV-160 (RH03A3A16)105	
R420 R421	7030003590	S.RESISTOR S.RESISTOR	ERJ3GEYJ 183 V (18 kΩ) ERJ3GEYJ 223 V (22 kΩ)	
R422	7310002580	S.TRIMMER	RV-108	
			(RH03A3A15X05A)104	
R423 R424	7030003600 7010005190	S.RESISTOR RESISTOR	ERJ3GEYJ 223 V (22 kΩ) R20J 6.8M Ω	
R425	7030003820	S.RESISTOR	ERJ3GEYJ 155 V (1.5 MΩ)	
R426	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	
R427	7030003840	S.RESISTOR	ERJ3GEYJ 225 V (2.2 MΩ)	
R428 R429	7030003780 7030003580	S.RESISTOR S.RESISTOR	ERJ3GEYJ 474 V (470 kΩ) ERJ3GEYJ 103 V (10 kΩ)	
R430	7310002740	S.TRIMMER	RV-150	
1			(RH03A3A14X0FC)103	
R431 R432	7030003600 7030003560	S.RESISTOR S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ) ERJ3GEYJ 103 V (10 kΩ)	
R433	7510000920	S.THERMISTOR	NTCCF2012 4CH 104KC-T	
R434	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kQ)	
R435	7030003670	S.RESISTOR	ERJ3GEYJ 823 V (82 kQ)	

[MAIN UNIT]				
REF. NO.	ORDER NO.	ם	ESCRIPTION	
R438	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)	
R437	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)	
R438	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)	
R439	7030003840	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	
R440 R441	7030003560 7030003640	S.RESISTOR S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 473 V (47 kΩ)	
R442	7030003040	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kQ)	
R443	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	
R444	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	
R445	7030003530 7030003560	S.RESISTOR S.RESISTOR	ERJ3GEYJ 582 V (5.6 kΩ) ERJ3GEYJ 103 V (10 kΩ)	
R449 R450	7030003380	S.RESISTOR	ERJ3GEYJ 224 V (220 kΩ)	
R451	7030003360	S.RESISTOR	ERJ3GEYJ 221 V (220 Ω)	
R452	7030003840	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	
R453	7030003320 7030003530	S.RESISTOR S.RESISTOR	ERJ3GEYJ 101 V (100 Ω) ERJ3GEYJ 562 V (5.6 kΩ)	
R454 R455	7030003530	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)	
R456	7030003840	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	
R457	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	
R458	7030003840	S.RESISTOR S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ) ERJ3GEYJ 102 V (1 kΩ)	
R459 R460	7030003440 7030003760	S.RESISTOR	ERJ3GEYJ 474 V (470 kΩ)	
R461	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)	
R462	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)	
R463	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	
R464 R465	7030003480 7030003580	S.RESISTOR S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ) ERJ3GEYJ 103 V (10 kΩ)	
R466	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	
R467	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	
R468	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	
R469 R470	7310000780 7030003690	TRIMMER S.RESISTOR	RH0651CS4J25A (473) ERJ3GEYJ 124 V (120 kΩ)	
R471	7310000780	TRIMMER	RH0651CS4J25A (473)	
R472	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	
R473	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	
R474 R475	7030003540 7030003380	S.RESISTOR S.RESISTOR	ERJ3GEYJ 682 V (6.8 kΩ) ERJ3GEYJ 221 V (220 Ω)	
R476	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kQ)	
R477	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	
R478	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 474 V (470 kΩ)	
R479 R480	7030003760 7030003600	S.RESISTOR S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)	
R481	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)	
R482	7030003700	S.RESISTOR	ERJ3GEYJ 154 V (150 kΩ)	
R483	7510000900	S.THERMISTOR	NTCCF2012 3SH 223KC-T	
R484 R485	7030003360 7030003360	S.RESISTOR S.RESISTOR	ERJ3GEYJ 221 V (220 Ω) ERJ3GEYJ 221 V (220 Ω)	
R486	7030003200	S.RESISTOR	ERJ3GEYJ 100 V (10 Ω)	
R487	7030003200	S.RESISTOR	ERJ3GEYJ 100 V (10 Ω)	
R488	7030003570 7030003740	S.RESISTOR S.RESISTOR	ERJ3GEYJ 123 V (12 kΩ) ERJ3GEYJ 334 V (330 kΩ)	
R489 R490	7030003740	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	
R491	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	
R495	7030003460	S.RESISTOR	ERJ3GEYJ 152 V (1.5 kQ)	
R496	7030003880	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 104 V (100 kΩ)	
R497 R498	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	
R499	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	
R500	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	
R501 R502	7030001090	S.RESISTOR S.RESISTOR	MCR50JZHJ 47 Ω (470) MCR50JZHJ 47 Ω (470)	
R503	7030001090	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	
R504	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	
R505	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	
R506 R507	7030003510	S.RESISTOR S.RESISTOR	ERJ3GEYJ 392 V (3.9 kΩ) ERJ3GEYJ 392 V (3.9 kΩ)	
R508	7030003510	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	
R509	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)	
R510	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kQ)	
R511	7030003520	S.RESISTOR S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ) ERJ3GEYJ 103 V (10 kΩ)	
R512 R513	7030003560	S.RESISTOR	ERJ3GEYJ 333 V (33 kΩ)	
R514	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	
R515	7030003580	S.RESISTOR	ERJ3GEYJ 153 V (15 kQ)	
R516 R517	7030003680 7030003680	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 104 V (100 kΩ)	
1.517		J. 1. L. 313 1 3 N	= 100 GE (0 104 1 (100 GE)	
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REF NO.	1	DESCRIPTION		
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R518 R519		S.RESISTOR S.RESISTOR	ERJ3GEYJ 822 V (8.2 kΩ) ERJ3GEYJ 223 V (22 kΩ)	
R520		S.RESISTOR	ERJ3GEYJ 581 V (580 Ω)	
R522	7030003580	S.RESISTOR	ERJ3GEYJ 153 V (15 kΩ)	
R523		S.RESISTOR	ERJ3GEYJ 153 V (15 kΩ)	
R524 R525	7030003500 7030003680	S.RESISTOR S.RESISTOR	ERJ3GEYJ 332 V (3.3 kΩ) ERJ3GEYJ 104 V (100 kΩ)	
R526	1	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	
R527		S.RESISTOR	ERJ3GEYJ 103 V (10 kQ)	
R528 R529	1	S.RESISTOR S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 473 V (47 kΩ)	
R530		S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	
R531	7030003590	S.RESISTOR	ERJ3GEYJ 183 V (18 ΙΩ)	
R532 R533	1	S.RESISTOR S.RESISTOR	ERJ3GEYJ 183 V (18 kΩ) ERJ3GEYJ 102 V (1 kΩ)	
R534	5	S.RESISTOR	ERJ3GEYJ 331 V (330 Ω)	
R535	1	S.RESISTOR	ERJ3GEYJ 561 V (580 Ω)	
R536 R537	1	S.RESISTOR S.THERMISTOR	ERJ3GEYJ 581 V (580 Ω) NTCCF2012 3JH 472KC-T	
R538		S.RESISTOR	ERJ3GEYJ 123 V (12 kΩ)	
R539		S.RESISTOR	ERJ3GEYJ 103 V (10 kQ)	
R540 R541	7030003490 7030003440	S.RESISTOR S.RESISTOR	ERJ3GEYJ 272 V (2.7 kΩ) ERJ3GEYJ 102 V (1 kΩ)	
R542	1	S.RESISTOR	ERJ3GEYJ 102 V (1 kQ)	
R543		S.RESISTOR	ERJ3GEYJ 102 V (1 kQ)	
R544 R545	1	S.THERMISTOR S.RESISTOR	NTCCF2012 3NH 103KC-T ERJ3GEYJ 472 V (4.7 kΩ)	
R546	1	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	
R547	1	S.RESISTOR	ERJ3GEYJ 473 V (47 ΚΩ)	
R548 R549	•	S.RESISTOR RESISTOR	ERJ3GEYJ 393 V (39 kΩ) CRH200 R-02J 27 Ω (270)	
R550	1	S.RESISTOR	ERJ3GEYJ 1R0 V (1 Ω)	
C1	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C2	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C3	4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1H 472K-T-A	
C4 C5	4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A	
C6	4510005870	S.ELECTROLITIC	ECEV1HA3R3SR	
C7 C8	4030006880	S.CERAMIC S.CERAMIC	C1808 JB 1H 472K-T-A C1808 JB 1H 472K-T-A	
C9	4030009000	S.CERAMIC S.CERAMIC	C2012 JB 1C 224K-T-A	
C10	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C11	4030007050 4030006880	S.CERAMIC S.CERAMIC	C1608 CH 1H 220J-T-A C1608 JB 1H 472K-T-A	
C13	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C14	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C15	4030006880 4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1H 472K-T-A	
C17	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C18	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C19 C20	4510005860 4030007140	S.ELECTROLITIC S.CERAMIC	ECEV1HA2R2SR C1608 CH 1H 121J-T-A	
C21	4030007140	S.CERAMIC	C1608 JB 1H 332K-T-A	
C22	4030009490	S.CERAMIC	C1608 JB 1H 821K-T-A	
C23	4510004630 4510004630	S.ELECTROLITIC S.ELECTROLITIC	ECEV1CA100SR ECEV1CA100SR	
C25	4510004630	S.ELECTROLITIC	ECEV1CA100SR	
C26	4030006870	S.CERAMIC	C1608 JB 1H 222K-T-A	
C27 C28	4030009110 4510004650	S.CERAMIC S.ELECTROLITIC	C3216 JB 1C 474K-T-A ECEV1EA4R7SR	
C29	4510004830	S.ELECTROLITIC	ECEV1CA100SR	
C30	4510004650	S.ELECTROLITIC S.CERAMIC	ECEV1EA4R7SR C2012 JB 1C 104K-T-A	
C31	4030008960 4510005370	S.ELECTROLITIC	ECEV1AA221P	
C33	4030009110	S.CERAMIC	C3216 JB 1C 474K-T-A	
C34	4510004630	S.ELECTROLITIC S.CERAMIC	ECEV1CA100SR C1608 JB 1H 472K-T-A	
C35 C36	4030006880 4030006880	S.CERAMIC S.CERAMIC	C1808 JB 1H 472K-T-A	
C37	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C38	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C39 C40	4510004630 4030010210	S.ELECTROLITIC S.CERAMIC	ECEV1CA100SR C3216 JB 1C 105M-T-A	
C41	4510004630	S.ELECTROLITIC	ECEV1CA100SR	
C42	4510004630	S.ELECTROLITIC	ECEV1CA100SR	

REF.	ORDER NO.	DESCRIPTION		
C43 C44	4510004630 4030009110	S.ELECTROLITIC S.CERAMIC	ECEV1CA100SR C3216 JB 1C 474K-T-A	
C45	4030008110	S.CERAMIC	C1808 JB 1H 102K-T-A	
C47	4030008960	S.CERAMIC	C2012 JB 1C 104K-T-A	
C48	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C49 C50	4030006860 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 102K-T-A	
C51	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C52	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C53 C54	4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1H 472K-T-A	
C55	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C56	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
C57 C58	4510004650 4030006860	S.ELECTROLITIC S.CERAMIC	ECEV1EA4R7SR C1608 JB 1H 102K-T-A	
C59	4030006930	S.CERAMIC	C1608 CH 1H 020C-T-A	
C60	4030006900	S.CERAMIC	C1808 JB 1E 103K-T-A	
C61 C62	4030006900 4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1E 103K-T-A C1608 JB 1H 472K-T-A	
C62	4550002980	S.TANTALUM	TEMSVA 1C 225M-8L	
C64	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C65	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A	
C66 C67	4510004630 4030006880	S.ELECTROLITIC S.CERAMIC	ECEV1CA100SR C1608 JB 1H 472K-T-A	
C68	4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A	
C69	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C70 C71	4030008900	S.CERAMIC S.CERAMIC	C1608 JB 1E 103K-T-A C1608 CH 1H 121J-T-A	
C72	4030007140	S.CERAMIC S.CERAMIC	C1608 JB 1H 471K-T-A	
C73	4030008900	S.CERAMIC	C1808 JB 1E 103K-T-A	
C74	4510004650	S.ELECTROLITIC	ECEV1EA4R7SR	
C75 C78	4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1H 472K-T-A	
C77	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C78	4510004830	S.ELECTROLITIC	ECEV1CA100SR	
C79 C80	4030006880 4030006950	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C1608 CH 1H 040C-T-A	
C81	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C82	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C83 C84	4030008980	S.CERAMIC S.CERAMIC	C2012 JB 1C 104K-T-A C1608 JB 1C 473K-T-A	
C85	4030007130	S.CERAMIC	C1608 CH 1H 101J-T-A	
C86	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C87	4030008880	S.CERAMIC S.ELECTROLITIC	C1608 JB 1H 472K-T-A ECEV1HA2R2SR	
C88 C89	4510005860 4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C90	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C91	4030008960	S.CERAMIC	C2012 JB 1C 104K-T-A	
C92 C93	4030006830 4030007130	S.CERAMIC S.CERAMIC	C1608 SL 1H 331J-T-A C1608 CH 1H 101J-T-A	
C94	4030007160	S.CERAMIC	C1608 CH 1H 181J-T-A	
C95	4030008290	S.CERAMIC	C1608 UJ 1H 270J-T-A	
C96	4030010220	S.CERAMIC S.CERAMIC	C2012 CH 1H 102J-T-A C1608 JB 1C 473K-T-A	
C97 C98	4030008920	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A	
C99	4030007130	S.CERAMIC	C1608 CH 1H 101J-T-A	
C100	4510004630	S.ELECTROLITIC	ECEVICA100SR	
C101 C102	4030008960	S.CERAMIC S.CERAMIC	C2012 JB 1C 104K-T-A C1608 JB 1C 473K-T-A	
C103	4030006880	S.CERAMIC	C1808 JB 1H 472K-T-A	
C104	4030007080	S.CERAMIC	C1608 CH 1H 270J-T-A	
C105 C108	4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C1608 CH 1H 470J-T-A	
C107	4030007080	S.CERAMIC	C1608 JB 1H 472K-T-A	
C113	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C118 C117	4030010210 4030006880	S.CERAMIC S.CERAMIC	C3216 JB 1C 105M-T-A C1608 JB 1H 472K-T-A	
C117	403000880	S.CERAMIC S.CERAMIC	C3216 JB 1C 105M-T-A	
C120	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A	
C121	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C122 C123	4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1E 103K-T-A	
C128	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A	
C141	4030008960	S.CERAMIC	C2012 JB 1C 104K-T-A	
C142 C143	4510004630 4030008960	S.ELECTROLITIC S.CERAMIC	ECEV1CA100SR C2012 JB 1C 104K-T-A	
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REF. NO.	ORDER NO.	DESCRIPTION		
C144	4030007130	S.CERAMIC	C1608 CH 1H 101J-T-A	
C145	4030008960	S.CERAMIC	C2012 JB 1C 104K-T-A	
C147 C148	4030007170 4030007120	S.CERAMIC S.CERAMIC	C1608 CH 1H 221J-T-A C1608 CH 1H 820J-T-A	
C149	4030008960	S.CERAMIC	C2012 JB 1C 104K-T-A	
C150	4030007010	S.CERAMIC	C1608 CH 1H 100D-T-A	
C151	4030010240	S.CERAMIC	C1608 JB 1H 391K-T-A C1608 CH 1H 330J-T-A	
C152 C153	4030007070 4030006900	S.CERAMIC S.CERAMIC	C1608 JB 1E 103K-T-A	
C154	4550006340	S.TANTALUM	ECST1AY335R	
C155	4030008320	S.CERAMIC	C1608 UJ 1H 470J-T-A	
C156 C157	4030006880 4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1H 472K-T-A	
C158	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C159	4510004630	S.ELECTROLITIC	ECEV1CA100SR	
C162 C163	4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C2012 JB 1C 104K-T-A	
C164	4030008900	S.CERAMIC	C1608 JB 1C 333K-T-A	
C165	4030008900	S.CERAMIC	C1608 JB 1C 333K-T-A	
C166 C167	4030008980 4030006900	S.CERAMIC S.CERAMIC	C2012 JB 1C 104K-T-A C1608 JB 1E 103K-T-A	
C168	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A	
C169	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A	
C170 C171	4510004630 4030008960	S.ELECTROLITIC S.CERAMIC	ECEV1CA100SR C2012 JB 1C 104K-T-A	
C172	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A	
C173	4030006850	S.CERAMIC	C1608 JB 1H 471K-T-A	
C174 C175	4030006880 4030010210	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C3216 JB 1C 105M-T-A	
C178	4030010210	S.CERAMIC	C1808 JB 1H 472K-T-A	
C177	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C179 C180	4030006880 4340000050	S.CERAMIC S.MYLAR	C1608 JB 1H 472K-T-A ECH-U 1C472JB5	
C181	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C182	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C184 C185	4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1H 472K-T-A	
C188	4340000050	S.MYLAR	ECH-U 1C472JB5	
C189	4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1H 472K-T-A	
C191 C192	4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A	
C193	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C194 C196	4030007050	S.CERAMIC S.CERAMIC	C1608 CH 1H 220J-T-A C1608 JB 1H 472K-T-A	
C196	4030007150	S.CERAMIC S.CERAMIC	C1608 CH 1H 151J-T-A	
C198	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C200 C201	4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1H 222K-T-A	
C201	4030008960	S.CERAMIC	C2012 JB 1C 104K-T-A	
C203	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A	
C204 C205	4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1H 102K-T-A	
C208	4030009000	S.CERAMIC S.CERAMIC	C2012 JB 1C 224K-T-A	
C207	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C208 C209	4510004540 4030007140	S.ELECTROLITIC S.CERAMIC	ECEV0JA470SR C1608 CH 1H 121J-T-A	
C210	4510004630	S.ELECTROLITIC	ECEV1CA100SR	
C211	4030010210	S.CERAMIC	C3216 JB 1C 105M-T-A	
C212 C213	4030009000	S.CERAMIC S.CERAMIC	C2012 JB 1C 224K-T-A C1608 JB 1H 472K-T-A	
C214	4510005310	S.ELECTROLITIC	ECEV1CA220SR	
C215	4510004630	S.ELECTROLITIC	ECEVICA100SR	
C216 C217	4510004630 4030009110	S.ELECTROLITIC S.CERAMIC	ECEV1CA100SR C3216 JB 1C 474K-T-A	
C218	4030008110	S.CERAMIC	C1608 JB 1H 102K-T-A	
C219	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C220 C221	4030006880 4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1H 472K-T-A	
C222	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C223	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A	
C224 C230	4030006860 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 102K-T-A	
C231	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
C232	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
C233 C234	4030006860 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 102K-T-A	
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REF. NO.	ORDER NO.	D	ESCRIPTION	
C235	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
C236	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
C237	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
C238	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
C239	4030006880	S.CERAMIC	C1608 JB 1H 102K-T-A	
C240 C241	4030006860 4510004640	S.CERAMIC S.ELECTROLITIC	C1608 JB 1H 102K-T-A ECEV1CA470SP	
C241	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
C243	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
C248	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A	
C249	4510004630	S.ELECTROLITIC	ECEV1CA100SR	
C250 C251	4030006900	S.CERAMIC S.CERAMIC	C1608 JB 1E 103K-T-A C1608 JB 1E 103K-T-A	
C252	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A	
C253	4030008960	S.CERAMIC	C2012 JB 1C 104K-T-A	
C254	4030008960	S.CERAMIC	C2012 JB 1C 104K-T-A	
C255	4550008440	S.TANTALUM	ECST1AX106R C2012 JB 1C 104K-T-A	
C256 C257	4030008980	S.CERAMIC S.CERAMIC	C2012 JB 1C 104K-T-A	
C258	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A	
C259	4030008960	S.CERAMIC	C2012 JB 1C 104K-T-A	
C260	4510004630	S.ELECTROLITIC	ECEV1CA100SR	
C261	4030008960 4030007130	S.CERAMIC S.CERAMIC	C2012 JB 1C 104K-T-A C1608 CH 1H 101J-T-A	
C262 C263	4030007130	S.CERAMIC S.CERAMIC	C2012 JB 1C 104K-T-A	
C265	4030007170	S.CERAMIC	C1608 CH 1H 221J-T-A	
C266	4030007120	S.CERAMIC	C1608 CH 1H 820J-T-A	
C267	4030010240	S.CERAMIC	C1608 JB 1H 391K-T-A	
C268	4030007070	S.CERAMIC	C1808 CH 1H 330J-T-A	
C289 C270	4030006900 4550006340	S.CERAMIC S.TANTALUM	C1608 JB 1E 103K-T-A ECST1AY335R	
C271	4030008320	S.CERAMIC	C1608 UJ 1H 470J-T-A	
C272	4030008960	S.CERAMIC	C2012 JB 1C 104K-T-A	
C273	4030006930	S.CERAMIC	C1608 CH 1H 020C-T-A C1608 JB 1H 472K-T-A	
C275 C276	4030006880 4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A	
C277	4030008900	S.CERAMIC	C1608 JB 1C 333K-T-A	
C278	4030008900	S.CERAMIC	C1608 JB 1C 333K-T-A	
C279	4030008900	S.CERAMIC	C1608 JB 1E 103K-T-A C1608 JB 1H 471K-T-A	
C280 C281	4030006850 4030007030	S.CERAMIC S.CERAMIC	C1608 CH 1H 150J-T-A	
C282	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C283	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C284 C285	4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C1608 CH 1H 060D-T-A	
C285	4030006970 4030007130	S.CERAMIC S.CERAMIC	C1608 CH 1H 101J-T-A	
C287	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C288	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C289 C290	4030006880 4030006940	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C1608 CH 1H 030C-T-A	
C291	4030007150	S.CERAMIC S.CERAMIC	C1608 CH 1H 151J-T-A	
C292	4030007150	S.CERAMIC	C1608 CH 1H 151J-T-A	
C293	4610001980	S.TRIMMER	CTZ3E-30C-W1	
C294	4030007070	S.CERAMIC	C1608 CH 1H 330J-T-A	
C295 C296	4030008920 4030008920	S.CERAMIC S.CERAMIC	C1608 JB 1C 473K-T-A C1608 JB 1C 473K-T-A	
C297	4030008920	S.CERAMIC	C1608 JB 1C 473K-T-A	
C298	4340000010	S.MYLAR	ECWU 1C 223JB5	
C299	4340000010	S.MYLAR	ECWU 1C 223JB5	
C300	4340000010 4510004840	S.MYLAR S.ELECTROLITIC	ECWU 1C 223JB5 ECEV1CA470SP	
C301 C302	4550006440	S.TANTALUM	ECST1AX108R	
C303	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A	
C304	4030008900	S.CERAMIC	C1608 JB 1C 333K-T-A	
C305	4030006900	S.CERAMIC	C1808 JB 1E 103K-T-A	
C308 C307	4510004630 4030010210	S.ELECTROLITIC S.CERAMIC	ECEV1CA100SR C3216 JB 1C 105M-T-A	
C308	4030010210	S.CERAMIC	C3218 JB 1C 105M-T-A	
C309	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C320	4030006880 4340000050	S.CERAMIC S.MYLAR	C1608 JB 1H 472K-T-A ECH-U 1C472JB5	
C321 C322	4030006880	S.MYLAR S.CERAMIC	C1608 JB 1H 472K-T-A	
C323	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A	
C324	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
C325 C326	4030006880 4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1H 472K-T-A	
5325	3000000000	J.OLI IAMIO	0,000 0D 111 472N-1-M	
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[MAIN UNIT]

	REF. NO.	ORDER NO.	DESCRIPTION		
ı	C328	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
1	C329	4340000050	S.MYLAR	ECH-U 1C472JB5	
۱	C330 C332	4030006880 4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1H 472K-T-A	
١	C332	4030006880	S.CERAMIC S.CERAMIC	C1808 JB 1H 472K-T-A	
۱	C334	4030006880	S.CERAMIC	C1808 JB 1H 472K-T-A	
I	C335	4030007050	S.CERAMIC	C1608 CH 1H 220J-T-A	
۱	C336 C338	4030006880 4030007070	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C1608 CH 1H 330J-T-A	
۱	C340	4030007070	S.CERAMIC	C1808 JB 1H 472K-T-A	
۱	C341	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A	
۱	C342 C343	4030006870 4030008960	S.CERAMIC S.CERAMIC	C1608 JB 1H 222K-T-A C2012 JB 1C 104K-T-A	
	C344	4030006880	S.CERAMIC	C1808 JB 1H 472K-T-A	
ı	C345	4030008980	S.CERAMIC	C2012 JB 1C 104K-T-A	
١	C346 C347	4510004630 4510005820	S.ELECTROLITIC	ECEV1CA100SR ECEV1CA101P	
١	C347	4030008960	S.CERAMIC	C2012 JB 1C 104K-T-A	
ı	C350	4030010210	S.CERAMIC	C3216 JB 1C 105M-T-A	
1	C351	4510005820	S.ELECTROLITIC S.CERAMIC	ECEVICATOIP	
ı	C352 C353	4030008980 4510004640	S.ELECTROLITIC	C2012 JB 1C 104K-T-A ECEV1CA470SP	
1	C354	4030010210	S.CERAMIC	C3218 JB 1C 105M-T-A	
l	C355	4030008900	S.CERAMIC	C1608 JB 1E 103K-T-A	
١	C356 C357	4550008480 4550008440	S.TANTALUM S.TANTALUM	ECST1VX225R ECST1AX106R	
ı	C358	4510004630	S.ELECTROLITIC	ECEV1CA100SR	
ı	C359	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
١	C360 C361	4030006900 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1E 103K-T-A C1608 JB 1H 102K-T-A	
۱	C362	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
l	C365	4510004630	S.ELECTROLITIC	ECEV1CA100SR	
ı	C368 C369	4030006880 4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1H 472K-T-A	
ı	C370	4030000880	S.CERAMIC	C3216 JB 1C 474K-T-A	
l	C371	4030006940	S.CERAMIC	C1608 CH 1H 030C-T-A	
١	C373	4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1H 472K-T-A	
1	C374 C375	4030006880 4030008960	S.CERAMIC S.CERAMIC	C2012 JB 1C 104K-T-A	
١	C376	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
I	C378 C379	4030006880 4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1H 472K-T-A	
ı	C379	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
١	C381	4030009000	S.CERAMIC	C2012 JB 1C 224K-T-A	
ı	C382 C383	4510004540 4030006880	S.ELECTROLITIC S.CERAMIC	ECEV0JA470SR C1608 JB 1H 472K-T-A	
١	C384	4030007140	S.CERAMIC	C1608 CH 1H 121J-T-A	
ı	C385	4510004630	S.ELECTROLITIC		
l	C386	4030006880 4030009000	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C2012 JB 1C 224K-T-A	
I	C387 C388	4030009000	S.CERAMIC S.CERAMIC	C1608 JB 1E 103K-T-A	
1	C389	4510004630	S.ELECTROLITIC	ECEV1CA100SR	
I	C394	4030006900	S.CERAMIC	C1608 JB 1E 103K-T-A	
I	C397 C398	4030008960 4030008960	S.CERAMIC S.CERAMIC	C2012 JB 1C 104K-T-A C2012 JB 1C 104K-T-A	
	C399	4510004630	S.ELECTROLITIC	ECEV1CA100SR	
	C400	4510005370	S.ELECTROLITIC	ECEV1AA221P C3216 JB 1C 474K-T-A	
	C401 C402	4030009110 4510004630	S.CERAMIC S.ELECTROLITIC	ECEV1CA100SR	
	C403	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
١	C404	4510004650	S.ELECTROLITIC		
I	C405 C406	4030006880 4510004630	S.CERAMIC S.ELECTROLITIC	C1608 JB 1H 472K-T-A ECEV1CA100SR	
I	C407	4030008960	S.CERAMIC	C2012 JB 1C 104K-T-A	
ı	C409	4030008960	S.CERAMIC	C2012 JB 1C 104K-T-A	
1	C410 C411	4030008960 4030008960	S.CERAMIC S.CERAMIC	C2012 JB 1C 104K-T-A C2012 JB 1C 104K-T-A	
	C412	4510004630	S.ELECTROLITIC	ECEVICA100SR	
١	C413	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
I	C414 C415	4510004650 4510004650	S.ELECTROLITIC S.ELECTROLITIC	ECEV1EA4R7SR ECEV1EA4R7SR	
١	C418	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
I	C417	4510005370	S.ELECTROLITIC	ECEV1AA221P	
	C418 C420	4030009110 4510004630	S.CERAMIC S.ELECTROLITIC	C3216 JB 1C 474K-T-A ECEV1CA100SR	
ı	C421	4030008960	S.CERAMIC	C2012 JB 1C 104K-T-A	

[MAIN UNIT]			
REF. NO.	ORDER NO.	DI	ESCRIPTION
C422	4510004800	ELECTROLITIC	16 MV 1000 HC
C423	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A
C424	4510004540	S.ELECTROLITIC	ECEV0JA470SR
C425	4510005820	S.ELECTROLITIC	ECEV1CA101P
C426	4510004540	S.ELECTROLITIC	ECEV0JA470SR
C427	4510005820	S.ELECTROLITIC	ECEVICA101P
C428 C429	4510004590 4510005820	ELECTROLITIC S.ELECTROLITIC	16 MV 470 HC ECEV1CA101P
C428	4510003620	ELECTROLITIC	18 MV 470 HC
C431	4030008960	S.CERAMIC	C2012 JB 1C 104K-T-A
C432	4030008960	S.CERAMIC	C2012 JB 1C 104K-T-A
C433	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C434 C435	4030006860 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 102K-T-A
C435	4030006880	S.CERAMIC	C1808 JB 1H 102K-T-A
C437	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C438	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C439	4030008860	S.CERAMIC	C1608 JB 1H 102K-T-A
C440	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 102K-T-A
C441 C442	4030006860 4030006860	S.CERAMIC S.CERAMIC	C1808 JB 1H 102K-T-A
C443	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A
C444	4030008980	S.CERAMIC	C2012 JB 1C 104K-T-A
C445	4510005320	S.ELECTROLITIC	ECEV0JA101SP
C448	4510004840	S.ELECTROLITIC	ECEVICA470SP
C447 C448	4030008900 4030008960	S.CERAMIC S.CERAMIC	C1608 JB 1E 103K-T-A C2012 JB 1C 104K-T-A
C449	4030008960	S.CERAMIC	C2012 JB 1C 104K-T-A
C450	4030008960	S.CERAMIC	C2012 JB 1C 104K-T-A
C451	4510005890	S.ELECTROLITIC	ECEV1AAN100R
C452	4030009090	S.CERAMIC	C3216 JB 1C 334K-T-A
C453	4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C1608 CH 1H 390J-T-A
C454 C455	4030007080	S.CERAMIC S.CERAMIC	C2012 JB 1C 104K-T-A
C456	4030008980	S.CERAMIC	C2012 JB 1C 104K-T-A
C457	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C458	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C459	4030006870	S.CERAMIC	C1608 JB 1H 222K-T-A
C460 C461	4030006870 4030006900	S.CERAMIC S.CERAMIC	C1608 JB 1H 222K-T-A C1608 JB 1E 103K-T-A
C463	4030007110	S.CERAMIC	C1608 CH 1H 680J-T-A
C464	4030007030	S.CERAMIC	C1608 CH 1H 150J-T-A
C485	4030006850	S.CERAMIC	C1608 JB 1H 471K-T-A
C488	4030006850	S.CERAMIC	C1608 JB 1H 471K-T-A
W1	7030003860	S.JUMPER	ERJ3GE JPW V
W2	7030003860	S.JUMPER	ERJ3GE JPW V
W3	7030003860	S.JUMPER	ERJ3GE JPW V
W4 W5	7030003860 7030003860	S.JUMPER S.JUMPER	ERJ3GE JPW V ERJ3GE JPW V
W8	7030003860	S.JUMPER	ERJ3GE JPW V
W10	7030003860	S.JUMPER	ERJ3GE JPW V
W11	7030003860	S.JUMPER	ERJ3GE JPW V

J1	6510007020	CONNECTOR	TMP-J01X-V6
J2	6510007020	CONNECTOR	TMP-J01X-V6
J3	8510018340	S.CONNECTOR	52207-0790
J4 .	6510007020	CONNECTOR	TMP-J01X-V6
J5	8510007020 8510007020	CONNECTOR	TMP-J01X-V6 TMP-J01X-V6
J6 J7	6510007020	CONNECTOR	PI28A-04M
J9	8510007100	CONNECTOR	PI28A-06M
J10	6510010910	CONNECTOR	PI28A-09M
J11	6510016310	CONNECTOR	52030-3010
J12 J13	6450000140 6450000170	CONNECTOR	HSJ0807-01-010 TCS4480-01-1111
J13 J15	6510007170	CONNECTOR	P128A-03M
J16	6450000140	CONNECTOR	HSJ0807-01-010
J17	6450000140	CONNECTOR	HSJ0807-01-010
J18	6510007170	CONNECTOR	PI28A-03M
J19 J20	6450000140 6510008940	CONNECTOR	HSJ0807-01-010 53073-1010
J21	6510008940	CONNECTOR	53073-1010
J22	6510007100	CONNECTOR	Pl28A-06M
1			

REF. NO.	ORDER NO.	DESCRIPTION		
J23	6910001040	CONNECTOR	IPS-1136	
\$1 \$2 \$3 \$4 \$5 \$6	2220000330 2220000330 2220000330 2220000330 2220000330 2220000330	S.SWITCH S.SWITCH S.SWITCH S.SWITCH S.SWITCH	HSW0880-01-210 HSW0880-01-210 HSW0880-01-210 HSW0880-01-210 HSW0880-01-210	
EP1	0910040347	РСВ	B 4004G	

[RF-A UNIT]

REF. NO.	ORDER NO.	D	ESCRIPTION
IC1	1110003320	s.ic	μPC2710T-E3
IC2	1110003320	S.IC	μPC2710T-E3
Q1	1560000270	S.FET	2SK302-Y (TE85R)
Q2 Q3	1580000270 1590001600	S.FET S.TRANSISTOR	2SK302-Y (TE85R) UMD3 TL
Q4	1530000810	TRANSISTOR	2SC2053
Q5	1590000430	S.TRANSISTOR	DTC144EU T107
Q6	1590000430	S.TRANSISTOR	DTC144EU T107
Q7 Q8	1580000630 1590000430	S.FET S.TRANSISTOR	3SK228XR-TL DTC144EU T107
Q9	1590001330	S.TRANSISTOR	DTA114EU T107
Q10	1590000430	S.TRANSISTOR	DTC144EU T107
Q11	1560000720	S.FET	2SK2171-4-TD
Q12	1560000720	S.FET	2SK2171-4-TD
Q13	1530000850	TRANSISTOR	2SC2538
		0.0005	MARCO CTV)
D1 D2	1790000450 1720000470	S.DIODE S.VARICAP	MA862(TX) 1SV239(TPH3)
D3	1790000470	S.VARICAP	MA363B(TX)
D4	1790000640	S.VARICAP	MA363B(TX)
D5	1790000640	S.VARICAP	MA363B(TX)
D6	1750000120	S.DIODE S.DIODE	DWA010-TE
D7 D8	1790000620	S.DIODE S.DIODE	MA77(TW) MA862(TX)
D9	1750000270	S.DIODE	1SS301 (TE85R)
D10	1790000640	S.VARICAP	MA363B(TX)
D11	1720000270	S.VARICAP	1SV217 (TPH2)
D12	1720000270	S.VARICAP S.VARICAP	1SV217 (TPH2)
D13	1790000640	S.DIODE	MA363B(TX) HSM88AS-TR
D15	1750000210	S.DIODE	1SV237 (TE85R)
D16	1790000450	S.DIODE	MA862(TX)
D17	1750000120	S.DIODE	DWA010-TE
			10 404
L1 L2	6150001480 6150001310	COIL	LS-164 LS-145
L3	6150001310	COIL	LS-145
L4	6150001310	COIL	LS-145
L5	6150001310	COIL	LS-145
L6	6200003450	S.COIL	NL 322522T-082J
L7 L8	6110001550	S.COIL COIL	NL 322522T-2R2J-3 LA-235
L9	6110001680	COIL	LA-254
L10	8110001860	COIL	LA-252
L11	6110001670	COIL	LA-253
L12	8180000810	COIL	LAL 03NA 2R2M
L13	6150001310 6150002880	COIL	LS-145 LS-302
L15	6150002880	COIL	LS-302
L16	6150001310	COIL	LS-145
L17	6180000810	COIL	LAL 03NA 2R2M
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[RF-A UNIT]

[RF-A UNIT]				
REF. NO.	ORDER NO.		ESCRIPTION	
L18	6200001980	S.COIL	NL 252018T-1R0J	
L19	6200002590	S.COIL	NL 252018T-039J	
L20	6200002590	S.COIL	NL 252018T-039J	
L21	6150002200	COIL	LS-228	
L22	6200003380	S.COIL	B4F-617PT-1026=P3	
L23	6200003330	S.COIL	NL 322522T-1R0J-3	
L24 L25	6110001560 6200003370	S.COIL	LA-238 33CS-655LY-02M=P3	
L25 L26	6200003370	S.COIL	NL 322522T-100J	
L28	6110001650	COIL	LA-248	
.	700000440	a projectop	ED 100EW 400 W (4 10)	
R1 R2	7030003440	S.RESISTOR S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 152 V (1.5 kΩ)	
R3	7310002720	S.TRIMMER	RV-148	
			(RH03A3AS3X0DA)472	
R4	7310002670	S.TRIMMER	RV-143 (RH03A3AS2)471	
R5	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)	
R6	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	
R7 R8	7030003680	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 101 V (100 Ω)	
R9	7030003320	S.RESISTOR	ERJ3GEYJ 104 V (100 Ω)	
R10	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	
R11	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	
R12	7030003370	S.RESISTOR	ERJ3GEYJ 271 V (270 Ω)	
R13	7030003230	S.RESISTOR	ERJ3GEYJ 180 V (18 Ω)	
R14	7030003370	S.RESISTOR	ERJ3GEYJ 271 V (270 Ω)	
R15 R16	7030003320	S.RESISTOR S.RESISTOR	ERJ3GEYJ 101 V (100 Ω) ERJ3GEYJ 102 V (1 kΩ)	
R17	7030003440	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)	
R18	7030000110	S.RESISTOR	MCR10EZHJ 5.6 Ω (5R6)	
R19	7030001070	S.RESISTOR	MCR50JZHJ 33 Ω (330)	
R20	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	
R21	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	
R22	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	
R23 R24	7030003680 7030003680	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 104 V (100 kΩ)	
R25	7030003050	S.RESISTOR	ERJ3GEYJ 270 V (27 Ω)	
R26	7030003300	S.RESISTOR	ERJ3GEYJ 680 V (68 Ω)	
R27	7030003670	S.RESISTOR	ERJ3GEYJ 823 V (82 kΩ)	
R28	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	
R29	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	
R30 R31	7030003530	S.RESISTOR S.RESISTOR	ERJ3GEYJ 562 V (5.6 kΩ) ERJ3GEYJ 221 V (220 Ω)	
R32	7010000790	RESISTOR	R25XJ 1 Ω	
R33	7030003840	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	
R34	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	
R35	7030003410	S.RESISTOR	ERJ3GEYJ 561 V (560 Ω)	
R36	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	
R37 R38	7030003340	S.RESISTOR S.RESISTOR	ERJ3GEYJ 151 V (150 Ω) ERJ3GEYJ 222 V (2.2 kΩ)	
R39	7030003460	S.RESISTOR	ERJ3GEYJ 152 V (1.5 kΩ)	
R40	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)	
R41	7030003280	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)	
R43	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)	
R44	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)	
R45 R47	7030003400	S.RESISTOR S.RESISTOR	ERJ3GEYJ 471 V (470 Ω) MCR10EZHJ 15 Ω (150)	
R48	7030000160	S.RESISTOR	MCR10EZHJ 13 Ω (130) MCR10EZHJ 82 Ω (820)	
R49	7030000160	S.RESISTOR	MCR10EZHJ 15 Ω (150)	
R50	7030001010	S.RESISTOR	MCR50JZHJ 10 Ω (100)	
R51	7030003370	S.RESISTOR	ERJ3GEYJ 271 V (270 Ω)	
R52	7030003280	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)	
R54 R55	7030000070	S.RESISTOR S.RESISTOR	MCR10EZHJ 2.7 Ω (2R7)	
R56	7030003510	S.RESISTOR	ERJ3GEYJ 392 V (3.9 kΩ) ERJ3GEYJ 122 V (1.2 kΩ)	
R57	7030003430	S.RESISTOR	ERJ3GEYJ 271 V (270 Ω)	
R58	7030003370	S.RESISTOR	ERJ3GEYJ 271 V (270 Ω)	
R59	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	
R60	7030003420	S.RESISTOR	ERJ3GEYJ 681 V (680 Ω)	
R61	7510000830	S.THERMISTOR	NTCCF2012 3EH 471KC-T	
R62 R63	7030003360	S.RESISTOR S.RESISTOR	ERJ3GEYJ 221 V (220 Ω) ERJ3GEYJ 220 V (22 Ω)	
	. 500000240	J.IILGIOTON	THOUSEN A ICE XI	

[RF-A UNIT]

[111 -7 0			
REF.	ORDER		DESCRIPTION
NO.	NO.		
C1	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A
C2	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A
C3	4030007130	S.CERAMIC	C1608 CH 1H 101J-T-A
C4	4030007070	S.CERAMIC	C1608 CH 1H 330J-T-A C1608 CH 1H 330J-T-A
C5 C6	4030007070	S.CERAMIC S.CERAMIC	C1608 CH 1H 330J-1-A C1608 JB 1H 102K-T-A
C7	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C8	4030006940	S.CERAMIC	C1608 CH 1H 030C-T-A
C9	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C10 C11	4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 102K-T-A
C12	4030008970	S.CERAMIC	C1608 CH 1H 060D-T-A
C13	4030008250	S.CERAMIC	C1608 UJ 1H 120J-T-A
C14	4030009570	S.CERAMIC	C1608 CH 1H 0R3B-T-A
C15	4030009570	S.CERAMIC S.CERAMIC	C1608 CH 1H 0R3B-T-A C1608 UJ 1H 120J-T-A
C18	4030008250	S.CERAMIC	C1608 CH 1H 0R3B-T-A
C18	4030009570	S.CERAMIC	C1608 CH 1H 0R3B-T-A
C19	4030008250	S.CERAMIC	C1608 UJ 1H 120J-T-A
C20	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C21 C22	4030006860 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 102K-T-A
C23	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C24	4030006960	S.CERAMIC	C1608 CH 1H 050C-T-A
C25	4030006850	S.CERAMIC	C1608 JB 1H 471K-T-A C1608 JB 1H 102K-T-A
C26 C27	4030006860 4610001890	S.CERAMIC S.TRIMMER	C1808 JB 1H 102K-1-A CTZ3E-20C-W1
C27	4030007010	S.CERAMIC	C1608 CH 1H 100D-T-A
C29	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C30	4030008860	S.CERAMIC	C1608 JB 1H 102K-T-A
C31	4030008880	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 102K-T-A
C32 C33	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C34	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C35	4610001890	S.TRIMMER	CTZ3E-20C-W1
C36 C37	4030007030	S.CERAMIC S.TRIMMER	C1608 CH 1H 150J-T-A CTZ3E-10A-W1
C37	4030007020	S.CERAMIC	C1808 CH 1H 120J-T-A
C39	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A
C40	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A
C41 C43	4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 102K-T-A
C43	4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A
C47	4030008250	S.CERAMIC	C1608 UJ 1H 120J-T-A
C49	4030009500	S.CERAMIC	C1608 CH 1H 0R5B-T-A
C50	4030007040	S.CERAMIC S.CERAMIC	C1608 CH 1H 180J-T-A C1608 CH 1H 040C-T-A
C51 C52	4030008950 4030009580	S.CERAMIC S.CERAMIC	C1608 CH 1H R75B-T-A
C53	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C54	4030008270	S.CERAMIC	C1608 UJ 1H 180J-T-A
C55	4030006940	S.CERAMIC	C1608 CH 1H 030C-T-A
C56 C57	4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 102K-T-A
C58	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C59	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C80	4030008230	S.CERAMIC	C1808 UJ 1H 080D-T-A
C61 C62	4030007120	S.CERAMIC S.CERAMIC	C1608 CH 1H 820J-T-A C1608 JB 1H 102K-T-A
C63	4030007060	S.CERAMIC	C1808 CH 1H 270J-T-A
C64	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C65	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C66	4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 102K-T-A
C67 C68	4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A
C69	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C70	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C71	4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 102K-T-A
C72 C73	4030006860 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A
C74	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C75	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C76	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C77	4030008860 4030008860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 102K-T-A
C79	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C80	4030007050	S.CERAMIC	C1608 CH 1H 220J-T-A
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[RF-A UNIT]

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REF. NO.	ORDER NO.	DESCRIPTION			
C81	4030006860	S.CERAMIC	C1808 JB 1H 102K-T-A		
C82	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A		
C83	4030009990	S.CERAMIC	C1608 CH 1H 200J-T-A		
C84	4030007010	S.CERAMIC	C1608 CH 1H 100D-T-A		
C85	4030007020	S.CERAMIC	C1608 CH 1H 120J-T-A		
C86	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A		
C87	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A		
C88	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A		
C89	4030008880	S.CERAMIC	C1608 JB 1H 472K-T-A		
C90	4030008370	S.CERAMIC	C1608 UJ 1H 121J-T-A		
C91	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A		
C92	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A		
C93	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A		
C94	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A		
C95	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A		
C96	4030008960	S.CERAMIC	C2012 JB 1C 104K-T-A		
C97	4510004840	S.ELECTROLITIC	ECEV1CA470SP		
C98	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A		
C100	4030007080	S.CERAMIC	C1608 CH 1H 390J-T-A		
C101	4610001980	S.TRIMMER	CTZ3E-30C-W1		
C102	4030009990	S.CERAMIC	C1608 CH 1H 200J-T-A		
C103	4610001980	S.TRIMMER	CTZ3E-30C-W1		
C104	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A		
C105	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A		
C108	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A		
C107	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A		
C108	4030007020	S.CERAMIC	C1608 CH 1H 120J-T-A		
C109	4030007010	S.CERAMIC	C1608 CH 1H 100D-T-A		
C110	4030007040	S.CERAMIC	C1608 CH 1H 180J-T-A		
C111	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A		
C112	4030007090	S.CERAMIC	C1608 CH 1H 470J-T-A		
C113	4030007090	S.CERAMIC	C1608 CH 1H 470J-T-A		
C114	4030007090	S.CERAMIC	C1608 CH 1H 470J-T-A		
C115	4030007090	S.CERAMIC	C1608 CH 1H 470J-T-A		
C118	4030007090	S.CERAMIC	C1808 CH 1H 470J-T-A		
C117	4030007090	S.CERAMIC	C1608 CH 1H 470J-T-A		
C118	4030007090	S.CERAMIC S.CERAMIC	C1608 CH 1H 470J-T-A C1608 CH 1H 470J-T-A		
C119 C120	4030007090	S.CERAMIC S.CERAMIC	C1608 CH 1H 0R5B-T-A		
C120	4030009500	S.CERAMIC S.CERAMIC	C1608 CH 1H 0R5B-T-A		
C122	4030008920	S.CERAMIC	C1808 CH 1H 010C-T-A		
C122	4030009500	S.CERAMIC	C1608 CH 1H 0R5B-T-A		
C124	4030008860	S.CERAMIC	C1608 JB 1H 102K-T-A		
0124	400000000	O.OLIIAMIO	O TOO OD THE TOLK I'M		
JЗ	6510006360	CONNECTOR	TMP-J02X-A1		
J4	6510016320	CONNECTOR	52030-0710		
J6	8510003250	CONNECTOR	TMP-J01X-A2		
J7	6510003250	CONNECTOR	TMP-J01X-A2		
			D 4045D		
EP1	0910040352	PCB	B 4015B		

[RF-B UNIT]

REF. NO.	ORDER NO.	DESCRIPTION	
IC1 IC2 IC3	1110003320 1110003320 6910007940	S.IC S.IC S.IC	μPC2710T-E3 μPC2710T-E3 CB501M1
IC4	1110003320	S.IC	μPC2710T-E3
Q1	1560000270	S.FET	2SK302-Y (TE85R)
Q2	1560000270	S.FET	2SK302-Y (TE85R)
Q3	1530002360	S.TRANSISTOR	2SC2714-Y (TE85R)
Q4	1530002680	S.TRANSISTOR	2SC3357-T2
Q5	1530000640	TRANSISTOR	2SC2407(A)
Q6	1590001800	S.TRANSISTOR	UMD3 TL
Q8	1590000430	S.TRANSISTOR	DTC144EU T107
Q8	1590000430	S.TRANSISTOR	DTC144EU T107
Q11	1560000490	S.FET	2SK508 K52 T2B

[RF-B UNIT]

[RF-B UNIT]

REF. NO.	ORDER NO.		DESCRIPTION
Q14	1530000372	S.TRANSISTOR	2SC3356 R24-T2B
Q15	1530000372	S.TRANSISTOR	2SC3356 R24-T2B
Q16	1580000630	S.FET	3SK228XR-TL
D1	1790000450	S.DIODE	MA862(TX)
D2	1750000120	S.DIODE	DWA010-TE
D4	1790000620	S.DIODE	MA77(TW)
D5	1790000450	S.DIODE	MA862(TX)
D6 D7	1790000450	S.DIODE S.DIODE	MA862(TX) 1SS301 (TE85R)
D8	1790000820	S.DIODE	MA77(TW)
D9	1790000450	S.DIODE	MA862(TX)
D10 D11	1790000450 1790000640	S.DIODE S.VARICAP	MA862(TX) MA363B(TX)
D12	1790000640	S.VARICAP	MA363B(TX)
D13	1790000640	S.VARICAP	MA363B(TX)
D14	1790000840	S.VARICAP	MA363B(TX)
D16 D17	1750000210	S.DIODE S.DIODE	1SV237 (TE85R) MA77(TW)
D18	1750000270	S.DIODE	1SS301 (TE85R)
FI1 FI2	2010001110	FILTER FILTER	FL-131 FL-130
FIZ	2010001100	FILICA	FL-130
L1	6150001480	COIL	LS-164
L2	6150001310	COIL	LS-145
L3 L4	6150001710 6150001710	COIL	LS-192 LS-192
L5	6150001310	COIL	LS-145
L6	6200002990	S.COIL	NL 322522T-2R2J-3
L7	6200003330 6180000770	S.COIL COIL	NL 322522T-1R0J-3 LAL 03NA 1R0M
L8 L9	6180000770	COIL	LAL 03NA 1ROM
L10	6200003450	S.COIL	NL 322522T-082J
L11	6200003370	S.COIL	33CS-655LY-02M=P3
L12 L13	6200003370	S.COIL S.COIL	33CS-655LY-02M=P3 33CS-655LY-04K=P3
L14	6200003370	S.COIL	33CS-655LY-02M=P3
L15	8180000770	COIL	LAL 03NA 1ROM
L16 L17	6200004000	S.COIL	LAL 03NA 1R0M NL 322522T-022K
L18	6200002100	S.COIL	LQN 1A 17NJ04
L19	8200001030	S.COIL	NL 322522T-012K
L20 L21	6150002550 6150002550	COIL	LS-284 LS-284
L22	6150004210	COIL	LS-480
L23	6150004180	COIL	LS-477
L24	6150002430	COIL	LS-254
L25 L26	6150002430 6150002430	COIL	LS-254 LS-254
L27	6150002430	COIL	LS-254
L28	6200003330	S.COIL	NL 322522T-1R0J-3
L29 L30	6200003380 6140002550	S.COIL S.COIL	B4F-617PT-1026=P3 B4F-617DB-1010=P3
L31	6200003370	S.COIL	33CS-655LY-02M=P3
L32	6200002330	S.COIL	LQN 1A 15NJ04
L33 L34	6200003370 6200003330	S.COIL S.COIL	33CS-655LY-02M=P3 NL 322522T-1R0J-3
L35	6110001810	COIL	LA-152
L36	6190000970	COIL	7HW-252MXPR-2983A
L37	6190000980	S.COIL	7HT-302MXPR-1838D NL 322522T-2R2J-3
L38 L39	6200002990	S.COIL S.COIL	NL 3225221-2H2J-3 NL 322522T-1R0J-3
L40	6200004020	S.COIL	NL 322522T-039J
L41	6200004020	S.COIL	NL 322522T-039J
R1	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R2	7030003460	S.RESISTOR	ERJ3GEYJ 152 V (1.5 kΩ)
R3	7310002740	S.TRIMMER	RV-150
R4	7030003400	S.RESISTOR	(RH03A3A14X0FC)103 ERJ3GEYJ 471 V (470 Ω)
R5	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)
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[RF-B UNIT]			
REF. NO.	ORDER NO.		DESCRIPTION
R6	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R7	7030003470	S.RESISTOR	ERJ3GEYJ 182 V (1.8 kΩ)
R8	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R9	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R10 R11	7030003290 7030003340	S.RESISTOR S.RESISTOR	ERJ3GEYJ 560 V (56 Ω) ERJ3GEYJ 151 V (150 Ω)
R12	7030003340	S.RESISTOR	ERJ3GEYJ 390 V (39 Ω)
R13	7030003340	S.RESISTOR	ERJ3GEYJ 151 V (150 Ω)
R14	7030003340	S.RESISTOR	ERJ3GEYJ 151 V (150 Ω)
R15	7030003300	S.RESISTOR S.RESISTOR	ERJ3GEYJ 680 V (68 Ω)
R16 R17	7030003460 7030003370	S.RESISTOR	ERJ3GEYJ 152 V (1.5 kΩ) ERJ3GEYJ 271 V (270 Ω)
R18	7030003230	S.RESISTOR	ERJ3GEYJ 180 V (18 Ω)
R19	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R20	7030003280	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)
R21 R22	7030003340 7030003370	S.RESISTOR S.RESISTOR	ERJ3GEYJ 151 V (150 Ω) ERJ3GEYJ 271 V (270 Ω)
R23	7030003340	S.RESISTOR	ERJ3GEYJ 151 V (150 Ω)
R24	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R25	7030003530	S.RESISTOR	ERJ3GEYJ 562 V (5.6 kΩ)
R26 R27	7030003200 7030003280	S.RESISTOR S.RESISTOR	ERJ3GEYJ 100 V (10 Ω) ERJ3GEYJ 470 V (47 Ω)
R29	7030003280	S.RESISTOR	ERJ3GEYJ 331 V (330 Ω)
R30	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R31	7030003500	S.RESISTOR	ERJ3GEYJ 332 V (3.3 kΩ)
R32	7030000060	S.RESISTOR	MCR10EZHJ 2.2 Ω (2R2)
R33 R34	7030001050 7030003480	S.RESISTOR S.RESISTOR	MCR50JZHJ 22 Ω (220) ERJ3GEYJ 222 V (2.2 kΩ)
R36	7030003430	S.RESISTOR	ERJ3GEYJ 821 V (820 Ω)
R37	7030004030	S.RESISTOR	ERJ3GEYJ 5R6 V (5.6 Ω)
R38	7030003430	S.RESISTOR	ERJ3GEYJ 821 V (820 Ω)
R41 R42	7030003310 7030003440	S.RESISTOR S.RESISTOR	ERJ3GEYJ 820 V (82 Ω) ERJ3GEYJ 102 V (1 kΩ)
R43	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R44	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
R45	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R46 R50	7030003310 7030003480	S.RESISTOR S.RESISTOR	ERJ3GEYJ 820 V (82 Ω) ERJ3GEYJ 222 V (2.2 kΩ)
R51	7030003480	S.RESISTOR	ERJ3GEYJ 152 V (1.5 kQ)
R52	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R53	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R54 R55	7030003520 7030003470	S.RESISTOR S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ) ERJ3GEYJ 182 V (1.8 kΩ)
R58	7030003470	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)
R61	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kQ)
R62	7030003460	S.RESISTOF	ERJ3GEYJ 152 V (1.5 kΩ)
R63 R64	7030003460 7030003460	S.RESISTOR S.RESISTOR	ERJ3GEYJ 152 V (1.5 kΩ) ERJ3GEYJ 152 V (1.5 kΩ)
R65	7030003480	S.RESISTOR	ERJ3GEYJ 152 V (1.5 kQ)
R66	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kQ)
R68	7030003450	S.RESISTOR	ERJ3GEYJ 122 V (1.2 kΩ)
R69 R71	7030003320 7030003200	S.RESISTOR S.RESISTOR	ERJ3GEYJ 101 V (100 Ω) ERJ3GEYJ 100 V (10 Ω)
R72	7030003200	S.RESISTOR	ERJ3GEYJ 100 V (10 Ω)
R73	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R74	7030003380	S.RESISTOR	ERJ3GEYJ 331 V (330 Ω)
R75 R76	7030003380 7030003580	S.RESISTOR S.RESISTOR	ERJ3GEYJ 331 V (330 Ω)
R77	7030003380	S.RESISTOR	ERJ3GEYJ 153 V (15 kΩ) ERJ3GEYJ 100 V (10 Ω)
R78	7030003880	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R79	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R80 R81	7030003680 7030003280	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R82	7030003280	S.RESISTOR S.RESISTOR	ERJ3GEYJ 470 V (47 Ω) ERJ3GEYJ 104 V (100 kΩ)
R83	7030003670	S.RESISTOR	ERJ3GEYJ 823 V (82 kΩ)
R85	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R87	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R88 R89	7030003240 7030003340	S.RESISTOR S.RESISTOR	ERJ3GEYJ 220 V (22 Ω) ERJ3GEYJ 151 V (150 Ω)
R91	7030003340	S.RESISTOR	ERJ3GEYJ 151 V (150 Ω)
R92	7030003340	S.RESISTOR	ERJ3GEYJ 151 V (150 Ω)
R93	7030003230	S.RESISTOR	ERJ3GEYJ 180 V (18 Ω)
R96 R97	7030003320 7030003310	S.RESISTOR S.RESISTOR	ERJ3GEYJ 101 V (100 Ω) ERJ3GEYJ 820 V (82 Ω)
R98	7030003310	S.RESISTOR	ERJ3GEYJ 151 V (150 Ω)
R99	7030003270	S.RESISTOR	ERJ3GEYJ 390 V (39 Ω)

[RF-B UNIT]

[RF-B UNIT]

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I	REF.	ORDER NO.	Di	ESCRIPTION	
ŀ	NO.	NO.			_
١	R100	7030003230	S.RESISTOR	ERJ3GEYJ 180 V (18 Ω)	
١	R101	7030003370	S.RESISTOR	ERJ3GEYJ 271 V (270 Ω)	
١	R102	7030003310	S.RESISTOR	ERJ3GEYJ 820 V (82 Ω)	
١	R103	7030003310	S.RESISTOR	ERJ3GEYJ 820 V (82 Ω)	
١	R104 R105	7310002630 7030003390	S.TRIMMER S.RESISTOR	RV-139 (RH03A3A12)101 ERJ3GEYJ 391 V (390 Ω)	
١	R107	7030003350	S.RESISTOR	ERJ3GEYJ 270 V (27 Ω)	
١	R109	7510000840	S.THERMISTOR	NTCCF2012 3EH 681KC-T	
١	R110	7510000850	S.THERMISTOR	NTCCF2012 3BH 102KC-T	
ı	R111	7030003370	S.RESISTOR	ERJ3GEYJ 271 V (270 Ω)	
١	R112	7030004010	S.RESISTOR	ERJ3GEYJ 2R2 V (2.2 Ω)	
ı					
ı	C1	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
۱	C2	4030008360	S.CERAMIC	C1608 UJ 1H 101J-T-A	
١	C3	4030007800	S.CERAMIC	C1608 SH 1H 330J-T-A	
١	C4 C6	4030007800 4030006860	S.CERAMIC S.CERAMIC	C1608 SH 1H 330J-T-A C1608 JB 1H 102K-T-A	
ı	C7	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
١	C8	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
ı	C9	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
	C10	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
I	C11	4030007020 4030007750	S.CERAMIC S.CERAMIC	C1608 CH 1H 120J-T-A C1608 SH 1H 120J-T-A	
I	C12 C13	4030007750	S.CERAMIC S.CERAMIC	C1808 SH 1H 120J-T-A	
ı	C14	4030007730	S.CERAMIC	C1608 CH 1H 0R3B-T-A	
ı	C15	4030007090	S.CERAMIC	C1608 CH 1H 470J-T-A	
١	C16	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
١	C17	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
ı	C18 C19	4030006860 4030008560	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 CH 1H 300J-T-A	
١	C20	4030006960	S.CERAMIC	C1608 CH 1H 050C-T-A	
1	C21	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
١	C23	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
ı	C24	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
١	C25 C26	4030006860 4030006850	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 471K-T-A	
ı	C27	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
١	C28	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
١	C29	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
1	C30	4030006850	S.CERAMIC	C1608 JB 1H 471K-T-A	
١	C31	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
١	C32 C33	4610001910 4030006850	S.TRIMMER S.CERAMIC	CTZ3E-10A-W1 C1608 JB 1H 471K-T-A	
ı	C34	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
١	C35	4030006850	S.CERAMIC	C1608 JB 1H 471K-T-A	
١	C36	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
ļ	C37	4610001910	S.TRIMMER	CTZ3E-10A-W1	
١	C38 C39	4030006980 4030006980	S.CERAMIC S.CERAMIC	C1608 CH 1H 070D-T-A C1608 CH 1H 070D-T-A	
ı	C40	4030006850	S.CERAMIC	C1608 JB 1H 471K-T-A	
١	C41	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
ı	C42	4510004640	S.ELECTROLITIC	ECEV1CA470SP	
ı	C43	4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 102K-T-A	
١	C44 C45	4030006860 4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A	
ı	C45	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
Į	C47	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
I	C48	4030007020	S.CERAMIC	C1608 CH 1H 120J-T-A	
ı	C50	4030007040 4030008940	S.CERAMIC S.CERAMIC	C1808 CH 1H 180J-T-A	
ı	C51 C52	4030008940	S.CERAMIC S.CERAMIC	C1608 CH 1H 030C-T-A C1608 CH 1H 120J-T-A	
١	C53	4030006850	S.CERAMIC	C1608 JB 1H 471K-T-A	
I	C54	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
ı	C55	4030007000	S.CERAMIC	C1608 CH 1H 090D-T-A	
I	C56	4030007010	S.CERAMIC	C1808 CH 1H 100D-T-A	
١	C57 C58	4030006860 4030007010	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 CH 1H 100D-T-A	
١	C59	4030007010	S.CERAMIC S.CERAMIC	C1808 CH 1H 100D-1-A	
١	C60	4030007010	S.CERAMIC	C1608 CH 1H 100D-T-A	
ı	C61	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
۱	C62	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
١	C63	4030006880	S.CERAMIC	C1808 JB 1H 472K-T-A	
I	C64 C66	4030006860 4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 472K-T-A	
	C67	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A	
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REF.	ORDER NO.		DESCRIPTION
		C CEDAMIC	C1608 JB 1H 102K-T-A
C68 C69	4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 102K-T-A
C70	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C71	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C72 C73	4030006880 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1H 102K-T-A
C74	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A
C75	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C76 C77	4030006860 4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 472K-T-A
C78	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C79	4030007100	S.CERAMIC	C1608 CH 1H 560J-T-A
C81 C84	4030006940	S.CERAMIC S.CERAMIC	C1608 CH 1H 030C-T-A C1608 CH 1H 470J-T-A
C85	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A
C86 C87	4030006980 4030006960	S.CERAMIC S.CERAMIC	C1608 CH 1H 070D-T-A C1608 CH 1H 050C-T-A
C88	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A
C89	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A
C90 C91	4030006980 4030006960	S.CERAMIC S.CERAMIC	C1808 CH 1H 070D-T-A C1608 CH 1H 050C-T-A
C92	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A
C93	4030006880	S.CERAMIC	C1608 JB 1H 472K-T-A
C97 C98	4030006880 4030006880	S.CERAMIC S.CERAMIC	C1608 JB 1H 472K-T-A C1608 JB 1H 102K-T-A
C99	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C100	4030006860 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 102K-T-A
C101 C102	4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A
C103	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C104	4030007090	S.CERAMIC	C1608 CH 1H 470J-T-A
C105 C106	4030006930 4030007000	S.CERAMIC S.CERAMIC	C1808 CH 1H 020C-T-A C1808 CH 1H 090D-T-A
C107	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C108 C109	4610001880 4030006920	S.TRIMMER S.CERAMIC	CTZ3E-03A-W1 C1608 CH 1H 010C-T-A
C111	40300009560	S.CERAMIC	C1608 CH 1H R75B-T-A
C112	4030007000	S.CERAMIC	C1608 CH 1H 090D-T-A
C113 C114	4030006860 4610001880	S.CERAMIC S.TRIMMER	C1608 JB 1H 102K-T-A CTZ3E-03A-W1
C115	4030009560	S.CERAMIC	C1608 CH 1H R75B-T-A
C117	4030009580	S.CERAMIC	C1608 CH 1H R75B-T-A
C118 C119	4030007010 4030008860	S.CERAMIC S.CERAMIC	C1608 CH 1H 100D-T-A C1608 JB 1H 102K-T-A
C120	4610001880	S.TRIMMER	CTZ3E-03A-W1
C121	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C122 C123	4030006860 4030006850	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 JB 1H 471K-T-A
C124	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C125 C126	4030006850 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 471K-T-A C1608 JB 1H 102K-T-A
C120	4030006850	S.CERAMIC	C1608 JB 1H 471K-T-A
C128	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C130 C131	4030006980 4030006860	S.CERAMIC S.CERAMIC	C1608 CH 1H 070D-T-A C1608 JB 1H 102K-T-A
C132	4810001880	S.TRIMMER	CTZ3E-03A-W1
C133	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C134 C135	4030006850 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 471K-T-A C1608 JB 1H 102K-T-A
C137	4030006970	S.CERAMIC	C1608 CH 1H 080D-T-A
C138	4030008880	S.CERAMIC	C1608 JB 1H 102K-T-A
C139 C140	4030008560 4030006850	S.CERAMIC S.CERAMIC	C1608 CH 1H 300J-T-A C1608 JB 1H 471K-T-A
C141	4030008880	S.CERAMIC	C1608 JB 1H 102K-T-A
C142	4030007010	S.CERAMIC	C1608 CH 1H 100D-T-A
C144 C145	4030008960 4030006860	S.CERAMIC S.CERAMIC	C2012 JB 1C 104K-T-A C1608 JB 1H 102K-T-A
C146	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A
C147 C149	4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 CH 1H 050C-T-A
C150	4030006960	S.CERAMIC	C1608 CH 1H 050C-T-A
C151	4030007090	S.CERAMIC	C1608 CH 1H 470J-T-A
C152 C153	4030007090 4030007040	S.CERAMIC S.CERAMIC	C1608 CH 1H 470J-T-A C1608 CH 1H 180J-T-A
C154	4030006980	S.CERAMIC	C1608 CH 1H 070D-T-A
C155	4030007040	S.CERAMIC	C1608 CH 1H 180J-T-A
<u> </u>		1878	
			S -Surface mount

[RF-B UNIT]

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REF.	ORDER NO.	DESCRIPTION			
NO.	140,				
C158	4030007090	S.CERAMIC	C1608 CH 1H 470J-T-A		
C157	4030007090	S.CERAMIC	C1608 CH 1H 470J-T-A		
C158	4030007090	S.CERAMIC	C1608 CH 1H 470J-T-A		
C159	4030007090	S.CERAMIC	C1608 CH 1H 470J-T-A		
C160	4030007090	S.CERAMIC	C1608 CH 1H 470J-T-A		
C161	4030007090	S.CERAMIC	C1608 CH 1H 470J-T-A		
C162	4030007090	S.CERAMIC	C1608 CH 1H 470J-T-A		
C163	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A		
C164	4030009570	S.CERAMIC	C1608 CH 1H 0R3B-T-A		
C165	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A		
C166	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A		
C167	4030008960	S.CERAMIC	C1608 CH 1H 050C-T-A		
C168	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A		
C169	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A		
C170	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A		
1					
W5	7030003860	S.JUMPER	ERJ3GE JPW V		
W6	7030003860	S.JUMPER	ERJ3GE JPW V		
W7	7030003860	S.JUMPER	ERJ3GE JPW V		
W8	7030003860	S.JUMPER	ERJ3GE JPW V		
1	1				
J3	6510003250	CONNECTOR	TMP-J01X-A2		
J4	6510003250	CONNECTOR	TMP-J01X-A2		
J5	6510003250	CONNECTOR	TMP-J01X-A2		
J6	6510006360	CONNECTOR	TMP-J02X-A1		
J7	8510007020	CONNECTOR	TMP-J01X-V6		
J8	8510018320	CONNECTOR	52030-0710		
EP1	0910040363	РСВ	B 4016C		
	0010040000		~ · · · · · · · · · · · · · · · · · · ·		

[PA UNIT]

REF. NO.	ORDER NO.		DESCRIPTION
IC1	1150000840	ıc	SC1114
IC2	1150000830	IC	SC1113
IC3	1150000140	IC	SC1018
D1	1710000010	DIODE	15CD11
SP1	2510000040	SPEAKER	C065K12l0810
MF1	2710000480	FAN	MF40C-12H004
J1	6510004910	CONNECTOR	NR-DS-E 01
J2	6510004880	CONNECTOR	MR-DS-E 01
S1	6910000050	THERMAL	OHD-3 50M

[PA-A UNIT]

REF. NO.	ORDER NO.		DESCRIPTION	
D1	1710000310	DIODE	MI407	
D2	1710000290	DIODE	MI308	
D3	1710000290	DIODE	MI308	
D4	1790000070	DIODE	1SS237	
D5	1790000070	DIODE	1SS237	
D6	1790000070	DIODE	1SS237	
D7	1790000070	DIODE	1SS237	
L1 L2 L3 L4 L5	6170000070 6170000230 6110001670 6110001740 6110001740	COIL COIL COIL	LW-9 LW-25 LA-253 LA-263 LA-263	

[PA-A UNIT]

PA-A U	UNIT]			
REF. NO.	ORDER NO.	D	ESCRIPTION	
L6	6110001550	COIL	LA-235	
L 7	6110001550	COIL	LA-235	
L8	6110001740	COIL	LA-263	
L9 L10	6170000180 6910000670	COIL	LW-19 BL01RN1-A62-001	
L11	6910000670	COIL	BL01RN1-A62-001	
L12	6180000880	COIL	LAL 03NA 100K	
L13	6910000670	COIL	BL01RN1-A62-001	
L14	6110001670	COIL	LA-253	
R1	7080000150	RESISTOR	RGB3L R15	
R2	7010004310	RESISTOR	R20J 8.2 kΩ	
R3 R4	7010004310 7010003480	RESISTOR RESISTOR	R20J 8.2 kΩ ELR20J 4.7 kΩ	
R5	7010003480	RESISTOR	ELR20J 4.7 kΩ	
R8	7010004740	RESISTOR	R50XJ 150 Q	
R9	7010004740	RESISTOR	R50XJ 150 Ω	
R10 R12	7010001150 7080000150	RESISTOR RESISTOR	R25XJ 1 kΩ RGB3L R15	
R13	7010004220	RESISTOR	R20J 1.8 kΩ	
C1 C2	4010000520 4010000500	CERAMIC	DD108 B 472K 50V DD104 B 102K 50V	
C2 C3	4040000890	BARRIERLAYR	UAT 08X 473K	
C4	4010004120	CERAMIC	DD07 B 102K 500V	
C5	4010003880	CERAMIC	DD06 SL 150K 500V	
C6	4010003940	CERAMIC	DD06 SL 300K 500V DD06 SL 300K 500V	
C7 C8	4010003940	CERAMIC CERAMIC	DD08 SL 150K 500V	
C9	4010004120	CERAMIC	DD07 B 102K 500V	
C10	4010000200	CERAMIC	DD104 SL 270J 50V	
C11	4010000090	CERAMIC	DD104 SL 070D 50V	
C12 C13	4010000330 4010003880	CERAMIC	DD105 SL 101J 50V DD06 SL 150K 500V	
C13	4010003880	CERAMIC	DD08 SL 200K 500V	
C15	4010004120	CERAMIC	DD07 B 102K 500V	
C17	4010003860	CERAMIC	DD06 SL 100D 500V	
C18 C19	4010000500	CERAMIC CERAMIC	DD104 B 102K 50V DD104 B 102K 50V	
C20	4010000500	CERAMIC	DD104 B 102K 50V	
C21	4010000500	CERAMIC	DD104 B 102K 50V	
C22	4010000520	CERAMIC	DD108 B 472K 50V	
C23	4010000500	CERAMIC	DD104 B 102K 50V	
C24 C25	4010000520 4510003890	CERAMIC ELECTROLITIC	DD108 B 472K 50V 16 MV 10 HW	
C26	4010000500	CERAMIC	DD104 B 102K 50V	
C27	4010000520	CERAMIC	DD108 B 472K 50V	
C28	4510004590	ELECTROLITIC	16 MV 470 HC	
C29	4010000520 4010000500	CERAMIC	DD108 B 472K 50V DD104 B 102K 50V	
C30 C31	4010000500	CERAMIC	DD104 B 102K 50V DD108 B 472K 50V	
C32	4010000500	CERAMIC	DD104 B 102K 50V	
C33	4510004590	ELECTROLITIC	18 MV 470 HC	
C34	4010000500	CERAMIC	DD104 B 102K 50V DD104 B 102K 50V	
C35 C37	4010000500 4010000500	CERAMIC CERAMIC	DD104 B 102K 50V	
C38	4010000500	CERAMIC	DD104 B 102K 50V	
C39	4010000500	CERAMIC	DD104 B 102K 50V	
C40	4010000500	CERAMIC	DD104 B 102K 50V	
C41 C42	4010003880 4010003880	CERAMIC	DD06 SL 150K 500V DD06 SL 150K 500V	
C43	4010003880	CERAMIC	DD06 SL 150K 500V	
W18 W19	8900004480 8900004490	CABLE CABLE	OPC-451 D OPC-451 E	
J1	6510003410	CONNECTOR	B05B-EH-S	
J4	6510003100	CONNECTOR	RT01T-1.3B	
J5	8510003100	CONNECTOR	RT01T-1.3B	
J6	8510003100	CONNECTOR	RT01T-1.3B	
EP2	0910040373	PCB	B 4017C	
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[PA-B UNIT]

REF. ORDER DESCRIPTION NO. NO. 1710000310 DIODE D1 MI407 1710000730 S.DIODE MI809-T11 D2 MI809-T11 S.DIODE 1710000730 D3 S.DIODE HSM88AS-TR 1790000490 **D4** HSM88AS-TR S DIODE D5 1790000490 6110001650 COIL LA-248 L1 COIL I A-382 L3 6110002110 L4 6110002110 COIL LA-382 L5 6110001520 COIL LA-232 LA-232 L6 6110001520 COIL 6110001520 COIL LA-232 L7 6110001600 COIL LA-243 18 LA-382 COIL L9 6110002110 L10 6110001650 COIL LA-248 6200001830 S.COIL NL 322522T-100J L11 S.COIL NL 322522T-100J 6200001830 L12 BL01RN1-A62-001 113 6910000670 COIL BL01RN1-A62-001 6910000670 COIL L14 LA-232 COIL L15 6110001520 L16 6110001650 COIL LA-248 6110001520 COIL LA-232 L17 L18 6110001520 COIL LA-232 R1 7080000150 RESISTOR RGB3L R15 R2 7030003550 S.RESISTOR ERJ3GEYJ 822 V (8.2 kΩ) S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R3 7030003440 7030003550 S.RESISTOR ERJ3GEYJ 822 V (8.2 kΩ) R4 ERJ3GEYJ 102 V (1 iQ) 7030003440 S.RESISTOR R5 S.RESISTOR MCR50JZHJ 150 Ω (151) R8 7030001150 MCR50JZHJ 150 Ω (151) R9 7030001150 S.RESISTOR 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 KQ) R10 R11 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) MCR50JZHJ 120 Q (121) 7030001140 S.RESISTOR R13 MCR50JZHJ 47 Q (470) 7030001090 S.RESISTOR R14 MCR50JZHJ 120 Q (121) 7030001140 S RESISTOR R15 RGB3L R15 R16 7080000150 RESISTOR **R17** 7030003320 S.RESISTOR ERJ3GEYJ 101 V (100 Ω) S.RESISTOR ERJ3GEYJ 222 V (2.2 kΩ) R18 7030003480 ERJ3GEYJ 222 V (2.2 kΩ) S.RESISTOR R19 7030003480 S.CERAMIC C1608 JB 1H 472K-T-A CI 4030006880 4030007090 S.CERAMIC C1608 CH 1H 470J-T-A C2 S.CERAMIC C1608 JB 1H 102K-T-A Ç3 4030006860 CERAMIC DD06 SL 080D 500V C5 4010003850 CERAMIC DD06 SL 080D 500V 4010003850 C6 CERAMIC DD06 SL 080D 500V **C7** 4010003850 C8 4010003850 CERAMIC DD06 SL 080D 500V 4010003830 **CERAMIC DD08 SL 080D 500V** C9 CERAMIC **DD06 SL 080D 500V** C10 4010003830 4030007020 S.CERAMIC C1608 CH 1H 120J-T-A C12 S.CERAMIC C1608 CH 1H 090D-T-A C14 4030007000 C15 4030007030 S.CERAMIC C1608 CH 1H 150J-T-A 4030007030 S.CERAMIC C1608 CH 1H 150J-T-A C16 S.CERAMIC C1608 CH 1H 120J-T-A C17 4030007020 4010003810 CERAMIC DD06 SL 040C 500V C18 CERAMIC DD06 SL 050C 500V 4010003820 C21 CERAMIC DD06 SL 020C 500V C22 4010003790 C23 4030008850 S CERAMIC C1608 JB 1H 471K-T-A 4030006850 S.CERAMIC C1608 JB 1H 471K-T-A C24 C25 4030006860 S.CERAMIC C1608 JB 1H 102K-T-A 4030006850 S.CERAMIC C1808 JB 1H 471K-T-A C26 4030006860 S CERAMIC C1808 JB 1H 102K-T-A C27 S.CERAMIC C28 4030006850 C1608 JB 1H 471K-T-A C29 4030006860 S.CERAMIC C1608 JB 1H 102K-T-A C30 4510004630 S.ELECTROLITIC ECEV1CA100SR C31 4030006860 S.CERAMIC C1808 JB 1H 102K-T-A 4030006850 S.CERAMIC C1608 JB 1H 471K-T-A C32 4510004590 **ELECTROLITIC** 16 MV 470 HC C33 S.CERAMIC C1608 JB 1H 102K-T-A C34 4030006860 C35 4030006850 S.CERAMIC C1608 JB 1H 471K-T-A 4030007090 S.CERAMIC C1808 CH 1H 470J-T-A C36 S.CERAMIC C1608 CH 1H 470J-T-A C37 4030007090

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REF. NO.	ORDER NO.	DI	ESCRIPTION	
C38	4030006850	S.CERAMIC	C1608 JB 1H 471K-T-A	
C39	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
C40	4510004590	ELECTROLITIC	18 MV 470 HC	
C41	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
C42 C44	4030006860 4030007090	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T-A C1608 CH 1H 470J-T-A	
C44	4030007080	S.CERAMIC	C1608 JB 1H 102K-T-A	
C46	4030007090	S.CERAMIC	C1608 CH 1H 470J-T-A	
C47	4010003860	CERAMIC	DD06 SL 100D 500V	
C48	4010005340	CERAMIC	DD05 SL 090D 500V	
C51 C52	4030006860 4510005310	S.CERAMIC S.ELECTROLITIC	C1608 JB 1H 102K-T-A ECEV1CA220SR	
C52	4510005310	S.ELECTROLITIC	· •	
C54	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
C55	4510005820	S.ELECTROLITIC	ECEV1CA101P	
C56	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
C57 C59	4010004120	CERAMIC CERAMIC	DD07 B 102K 500V DD06 SL 050C 500V	
C80	4030006960	S.CERAMIC	C1808 CH 1H 050C-T-A	
C61	4030006850	S.CERAMIC	C1808 JB 1H 471K-T-A	
C62	4030006850	S.CERAMIC	C1608 JB 1H 471K-T-A	
C63	4030006850	S.CERAMIC	C1608 JB 1H 471K-T-A	
C64 C65	4030006850	S.CERAMIC S.CERAMIC	C1608 JB 1H 471K-T-A C1608 JB 1H 471K-T-A	
C66	4030006860	S.CERAMIC	C1608 JB 1H 102K-T-A	
C67	4010003820	CERAMIC	DD06 SL 050C 500V	
C68	4010003810	CERAMIC	DD06 SL 040C 500V	
C89	4010003810	CERAMIC	DD08 SL 040C 500V	
C70	4010003810	CERAMIC CERAMIC	DD08 SL 040C 500V DD06 SL 040C 500V	
C71 C72	4010003810	CERAMIC	DD08 SL 150K 500V	
C73	4010003890	CERAMIC	DD06 SL 180K 500V	
J1	6510003420	CONNECTOR	B06B-EH-S	
F1	5210000180	FUSE	FGMB 125V 5A	
F2	6510018320	HOLDER	F09P	
EP1	6510018330	TERMINAL	F4053A	
EP2	6510018330	TERMINAL	F4053A	
EP3	0910040383	PCB	B 4018	

SECTION 7 MECHANICAL PARTS AND DISASSEMBLY

7-1 CABINET PARTS

[FRONT UNIT]

EF. O. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ORDER NO. 6510000290 0910041880 6450001230 2260001580 2250000130 5510000420 8210010680 8210011860 8010015280 8610008510 8610009170 8610009010 8610009000 8610009000 8610009000 8610009000 8610009000 8610009000 8610009000 8610009000 8610009000 8610009000 8610009000 8610009000 8610009100	DESCRIPTION Connector 8S-S-E [MIC] (incl. spring washer and nut) [MIC] jack Flexible P.C.B. B 4178 Snap plate HLJ0999-01-480 Power switch JPZ2120-0101 (TV-3) Encoder SW-152 (EC24B50B0013B) S/RF meter ME-34 1424 Front panel (C) 1424 Window plate (A) 1424 Sub chassis Knob N45(D) [AF MAIN/SUB], [RIT] Knob N69(A) [SQL MAIN/SUB], [SHIFT] Knob N213 base [Main dial] Button K210 [NB, ATT, PRE, AGC, PO/CO] Button K199 (I) [CHECK,TONE, MAIN/SUB, FUNC Button K199 (I) [CHECK,TONE, MAIN/SUB, FUNC Button K199 (K) [CALL, VFO, MEMO, MW] Button K-200 [RIT, kHz/MHZ, SCAN] Button K201 (A) [POWER] Button K202 [TRANSMIT] Button K202 (B) [DOWN] 610 Knob sheet	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 2 2 3 3 2 E 1 1 2 2 3 3 2 4 4 2 5 5 4 7 11 2 11 3 2 11 4 2 11 5 11 7 11 7 11 7 11 7 11 7 11 7 11	0910041880 6450001230 2260001580 2250000130 5510000420 8210010680 8210011860 8010015280 8610008510 8610009170 8610009010 8610009008 86100090221 8610009090 8610009430 8610009110 8610009110 8610009110 8610009110 88930013940	(incl. spring washer and nut) [MIC] jack Flexible P.C.B. B 4178 Snap plate HLJ0999-01-480 Power switch JPZ2120-0101 (TV-3) Encoder SW-152 (EC24B50B0013B) S/RF meter ME-34 1424 Front panel (C) 1424 Window plate (A) 1424 Sub chassis Knob N45(D) [AF MAIN/SUB], [RIT] Knob N69(A) [SQL MAIN/SUB], [SHIFT] Knob N213 base [Main dial] Knob N213 cover [Main dial] Button K210 [NB, ATT, PRE, AGC, PO/CO] Button K199 (I) [CHECK,TONE, MAIN/SUB, FUNC Button K199 (K) [CALL, VFO, MEMO, MW] Button K-200 [RIT, kHz/MHZ, SCAN] Button K201 (A) [POWER] Button K202 [TRANSMIT] Button K202 (B) [DOWN] 610 Knob sheet	1 1 1 1 1 1 3 3 1 1 1 1 3 1 1 1 1 1 1 1
2 2 3 3 1 5 2 5 1 6 7 1 7 1 1 5 1 1 5 1 1 7 1 7 1 7 1 7 1 7	6450001230 2260001580 2250000130 5510000420 8210010680 8210011860 8010015280 8610008510 8610009160 8610009170 8610009070 8610009080 86100090221 8610009090 8610009090 8610009110 8610009110 8610009110 8830013940	Snap plate HLJ0999-01-480 Power switch JPZ2120-0101 (TV-3) Encoder SW-152 (EC24B50B0013B) S/RF meter ME-34 1424 Front panel (C) 1424 Window plate (A) 1424 Sub chassis Knob N45(D) [AF MAIN/SUB], [RIT] Knob N69(A) [SQL MAIN/SUB], [SHIFT] Knob N213 base [Main dial] Button K210 [NB, ATT, PRE, AGC, PO/CO] Button K199 (I) [CHECK,TONE, MAIN/SUB, FUNC Button K199 (J) [FM, SSB/CW, SUB, LOCK] Button K199 (K) [CALL, VFO, MEMO, MW] Button K-200 [RIT, kHz/MHZ, SCAN] Button K201 (A) [POWER] Button K202 [TRANSMIT] Button K202 (B) [DOWN] 610 Knob sheet	1 1 1 1 1 1 3 3 1 1 1 3 1 1 1 1 1 1 1 1
S 1 S 2 E 1 P 1 P 2 P 3 P 4 P 5 P 6 P 7 P 8 P 9 P 11 P 12 P 13 P 14 P 15 P 16 P 17 P 16 P 17 P 17 P 17 P 18 P 18 P 18 P 18 P 18 P 18 P 18 P 18	2260001580 2250000130 5510000420 8210010680 8210011860 8010015280 8610008510 8610009170 8610009010 8610009000 86100090221 8610009090 8610009090 8610009430 8610009110 8610009110 8930013940	Power switch JPZ2120-0101 (TV-3) Encoder SW-152 (EC24B50B0013B) S/RF meter ME-34 1424 Front panel (C) 1424 Window plate (A) 1424 Sub chassis Knob N45(D) [AF MAIN/SUB], [RIT] Knob N69(A) [SQL MAIN/SUB], [SHIFT] Knob N213 base [Main dial] Knob N213 cover [Main dial] Button K210 [NB, ATT, PRE, AGC, PO/CO] Button K199 (I) [CHECK,TONE, MAIN/SUB, FUNC Button K199 (J) [FM, SSB/CW, SUB, LOCK] Button K199 (K) [CALL, VFO, MEMO, MW] Button K-200 [RIT, kHz/MHZ, SCAN] Button K201 (A) [POWER] Button K202 [TRANSMIT] Button K202 (B) Button K202 (B) [DOWN]	1 1 1 1 1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1
S 2 1 1 2 2 3 3 2 4 4 2 5 5 6 7 7 8 8 9 9 9 110 2 113 2 114 2 115 2 116 2 117	2250000130 5510000420 8210010680 8210011860 8010015280 8610008500 8610009160 8610009010 8610009070 8610009080 86100090221 8610009090 8610008430 8610009110 8610009110 88930013940	Encoder SW-152 (EC24B50B0013B) S/RF meter ME-34 1424 Front panel (C) 1424 Window plate (A) 1424 Sub chassis Knob N45(D) [AF MAIN/SUB], [RIT] Knob N69(A) [SQL MAIN/SUB], [SHIFT] Knob N213 base [Main dial] Button K210 [NB, ATT, PRE, AGC, PO/CO] Button K199 (I) [CHECK,TONE, MAIN/SUB, FUNC Button K199 (J) [FM, SSB/CW, SUB, LOCK] Button K199 (K) [CALL, VFO, MEMO, MW] Button K-200 [RIT, kHz/MHZ, SCAN] Button K201 (A) [POWER] Button K202 [TRANSMIT] Button K202 (B) [DOWN] 610 Knob sheet	1 1 1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
E 1 1 2 2 3 3 3 4 4 5 5 5 6 7 7 8 8 9 9 9 10 11 2 12 13 14 15 16 17 17 17 17 17 17 17 17 17 17 17 17 17	5510000420 8210010680 8210011860 8010015280 8610008510 8610009160 8610009170 8610009010 8610009000 86100090221 8610009090 8610008430 8610009110 8610009110 8610009110	S/RF meter ME-34 1424 Front panel (C) 1424 Window plate (A) 1424 Sub chassis Knob N45(D) [AF MAIN/SUB], [RIT] Knob N69(A) [SQL MAIN/SUB], [SHIFT] Knob N213 base [Main dial] Button K210 [NB, ATT, PRE, AGC, PO/CO] Button K199 (I) [CHECK,TONE, MAIN/SUB, FUNC Button K199 (J) [FM, SSB/CW, SUB, LOCK] Button K199 (K) [CALL, VFO, MEMO, MW] Button K-200 [RIT, kHz/MHZ, SCAN] Button K201(A) [POWER] Button K202 [TRANSMIT] Button K202 (B) [DOWN] 610 Knob sheet	1 1 1 3 3 1 1 1 3 1 1 1 1 1 1 1 1 1 1 1
2 1 2 2 2 3 3 4 4 5 5 5 6 6 7 7 8 8 9 9 9 10 2 11 2 2 11 3 11 5 11 6 2 11 7 11 7 11 7 11 7 11 7 11 7 11	8210010680 8210011860 8010015280 8610008510 8610009160 8610009170 8610009010 8610009070 86100090221 8610009090 8610008430 8610009110 8610009110 8610009110	1424 Front panel (C) 1424 Window plate (A) 1424 Sub chassis Knob N45(D) [AF MAIN/SUB], [RIT] Knob N69(A) [SQL MAIN/SUB], [SHIFT] Knob N213 base [Main dial] Button K210 [NB, ATT, PRE, AGC, PO/CO] Button K199 (I) [CHECK,TONE, MAIN/SUB, FUNC Button K199 (J) [FM, SSB/CW, SUB, LOCK] Button K199 (K) [CALL, VFO, MEMO, MW] Button K-200 [RIT, kHz/MHZ, SCAN] Button K201 (A) [POWER] Button K202 [TRANSMIT] Button K202 (B) [DOWN] 610 Knob sheet	1 1 1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2 2 3 3 4 4 5 5 5 6 7 7 8 8 9 9 10 11 2 11 3 11 4 11 5 11 6 11 7 11 7 11 7 11 7 11 7 11 7	8210011860 8010015280 8610008510 8610009160 8610009170 8610009010 8610009070 86100090221 8610009090 8610008430 8610009110 8610009110 8930013940	1424 Window plate (A) 1424 Sub chassis Knob N45(D) [AF MAIN/SUB], [RIT] Knob N69(A) [SQL MAIN/SUB], [SHIFT] Knob N213 base [Main dial] Button K210 [NB, ATT, PRE, AGC, PO/CO] Button K199 (I) [CHECK,TONE, MAIN/SUB, FUNC Button K199 (J) [FM, SSB/CW, SUB, LOCK] Button K199 (K) [CALL, VFO, MEMO, MW] Button K-200 [RIT, kHz/MHZ, SCAN] Button K201 (A) [POWER] Button K202 [TRANSMIT] Button K202 (A) [UP] Button K202 (B) [DOWN]	1 1 3 3 1 1 1 3 3 1 1 1 1 1 1 1 1 1 1 1
2 3 4 4 5 5 6 7 7 8 8 9 9 9 10 9 11 9 12 9 13 9 14 9 15 16 9 17	8010015280 8610008510 8610008500 8610009160 8610009010 8610009000 8610009070 8610009080 86100090221 8610009090 8610008430 8610009110 8810009110 8930013940	1424 Sub chassis Knob N45(D) [AF MAIN/SUB], [RIT] Knob N69(A) [SQL MAIN/SUB], [SHIFT] Knob N213 base [Main dial] Button K210 [NB, ATT, PRE, AGC, PO/CO] Button K199 (I) [CHECK,TONE, MAIN/SUB, FUNC Button K199 (J) [FM, SSB/CW, SUB, LOCK] Button K199 (K) [CALL, VFO, MEMO, MW] Button K-200 [RIT, kHz/MHZ, SCAN] Button K201 (A) [POWER] Button K202 [TRANSMIT] Button K202 (A) [UP] Button K202 (B) [DOWN]	1 3 3 1 1 1 3 1 1 1 1 1 1 1
2 4 4 7 5 5 6 7 7 8 8 9 9 9 10 9 11 12 12 13 14 15 15 16 17 17	8610008510 8610008500 8610009160 86100090170 8610009060 8610009070 8610009080 86100090221 8610009090 8610008430 8610009110 8610009110 8930013940	Knob N45(D) [AF MAIN/SUB], [RIT] Knob N69(A) [SQL MAIN/SUB], [SHIFT] Knob N213 base [Main dial] Knob N213 cover [Main dial] Button K210 [NB, ATT, PRE, AGC, PO/CO] Button K199 (I) [CHECK,TONE, MAIN/SUB, FUNC Button K199 (J) [FM, SSB/CW, SUB, LOCK] Button K199 (K) [CALL, VFO, MEMO, MW] Button K-200 [RIT, kHz/MHZ, SCAN] Button K201(A) [POWER] Button K202 [TRANSMIT] Button K202 (A) [UP] Button K202 (B) [DOWN]	3 3 1 1 5 1 1 1 3 1 1 1 1 1 1 1 1 1 1 1
9 5 6 7 7 8 9 9 9 10 9 11 9 12 9 13 9 14 9 15 9 16 9 17	8610008500 8610009160 8610009170 8610009010 8610009060 8610009080 8610009221 8610009090 8610008430 8610009100 8610009110 8930013940	Knob N69(A) [SQL MAIN/SUB], [SHIFT] Knob N213 base [Main dial] Knob N213 cover [Main dial] Button K210 [NB, ATT, PRE, AGC, PO/CO] Button K199 (I) [CHECK,TONE, MAIN/SUB, FUNC Button K199 (J) [FM, SSB/CW, SUB, LOCK] Button K199 (K) [CALL, VFO, MEMO, MW] Button K-200 [RIT, kHz/MHZ, SCAN] Button K201(A) [POWER] Button K202 [TRANSMIT] Button K202 (A) [UP] Button K202 (B) [DOWN]	3 1 1 5 1 1 1 3 1 1 1
9 6 9 7 9 8 9 9 9 10 9 11 9 12 9 13 9 14 9 15 9 16	8610009160 8610009170 8610009010 8610009060 8610009070 86100090221 8610009090 8610008430 8610009100 8610009110 8930013940	Knob N213 base [Main dial] Knob N213 cover [Main dial] Button K210 [NB, ATT, PRE, AGC, PO/CO] Button K199 (I) [CHECK,TONE, MAIN/SUB, FUNC Button K199 (J) [FM, SSB/CW, SUB, LOCK] Button K199 (K) [CALL, VFO, MEMO, MW] Button K-200 [RIT, kHz/MHZ, SCAN] Button K201 (A) [POWER] Button K202 [TRANSMIT] Button K202 (A) [UP] Button K202 (B) [DOWN]	1 1 5 1 1 1 1 1 1 1 1 1
9 7 9 8 9 9 9 10 9 11 9 12 9 13 9 14 9 15 9 16	8610009170 8610009010 8610009060 8610009070 8610009080 8610009221 8610009090 8610008430 8610009110 8930013940	Knob N213 cover [Main dial] Button K210 [NB, ATT, PRE, AGC, PO/CO] Button K199 (I) [CHECK,TONE, MAIN/SUB, FUNC Button K199 (J) [FM, SSB/CW, SUB, LOCK] Button K199 (K) [CALL, VFO, MEMO, MW] Button K-200 [RIT, kHz/MHZ, SCAN] Button K201(A) [POWER] Button K202 [TRANSMIT] Button K202 (A) [UP] Button K202 (B) [DOWN]	1 5 1 1 1 3 1 1 1 1 1
9 8 9 9 10 9 11 9 12 9 13 9 14 9 15 9 16 9 17	8610009010 8610009060 8610009070 8610009080 86100090221 8610009090 8610008430 8610009100 8610009110 8930013940	Button K210 [NB, ATT, PRE, AGC, PO/CO] Button K199 (I) [CHECK,TONE, MAIN/SUB, FUNC Button K199 (J) [FM, SSB/CW, SUB, LOCK] Button K199 (K) [CALL, VFO, MEMO, MW] Button K-200 [RIT, kHz/MHZ, SCAN] Button K201(A) [POWER] Button K202 [TRANSMIT] Button K202 (A) [UP] Button K202 (B) [DOWN]	5 1 1 1 3 1 1 1
9 9 9 10 9 11 9 12 9 13 9 14 9 15 9 16 9 17	8610009060 8610009070 8610009080 86100090221 8610009090 8610008430 8610009110 8930013940	Button K199 (I) [CHECK,TONE, MAIN/SUB, FUNC Button K199 (J) [FM, SSB/CW, SUB, LOCK] Button K199 (K) [CALL, VFO, MEMO, MW] Button K-200 [RIT, kHz/MHZ, SCAN] Button K201(A) [POWER] Button K202 [TRANSMIT] Button K202 (A) [UP] Button K202 (B) [DOWN]	1 1 1 3 1 1 1 1 1 1 1 1
9 10 9 11 9 12 9 13 9 14 9 15 9 16	8610009070 8610009080 8610009221 8610009090 8610008430 8610009110 8610009110 8930013940	Button K199 (J) [FM, SSB/CW, SUB, LOCK] Button K199 (K) [CALL, VFO, MEMO, MW] Button K-200 [RIT, kHz/MHZ, SCAN] Button K201(A) [POWER] Button K202 [TRANSMIT] Button K202 (A) [UP] Button K202 (B) [DOWN]	1 1 3 1 1 1 1
9 11 9 12 9 13 9 14 9 15 9 16	8610009080 8610009221 8610009090 8610008430 8610009100 8610009110 8930013940	Button K199 (K) [CALL, VFO, MEMO, MW] Button K-200 [RIT, kHz/MHZ, SCAN] Button K201(A) [POWER] Button K202 [TRANSMIT] Button K202 (A) [UP] Button K202 (B) [DOWN] 610 Knob sheet	1 3 1 1 1
912 913 914 915 916	8610009221 8610009090 8610008430 8610009100 8610009110 8930013940	Button K-200 [RIT, kHz/MHZ, SCAN] Button K201(A) [POWER] Button K202 [TRANSMIT] Button K202 (A) [UP] Button K202 (B) [DOWN] 610 Knob sheet	3 1 1 1
913 914 915 916 917	8610009090 8610008430 8610009100 8610009110 8930013940	Button K201(A) [POWER] Button K202 [TRANSMIT] Button K202 (A) [UP] Button K202 (B) [DOWN] 610 Knob sheet	1 1 1 1
914 915 916 917	8610008430 8610009100 8610009110 8930013940	Button K202 [TRANSMIT] Button K202 (A) [UP] Button K202 (B) [DOWN] 610 Knob sheet	1 1 1
915 916 917	8610009100 8610009110 8930013940	Button K202 (A) [UP] Button K202 (B) [DOWN] 610 Knob sheet	1 1
) 16) 17	8610009110 8930013940	Button K202 (B) [DOWN] 610 Knob sheet	1
17	8930013940	Button K202 (B) [DOWN] 610 Knob sheet	1
17	8930013940	610 Knob sheet	.
	8930014030	610 Brake pad	1
19	8930013990	610 Brake plate	1
20	8820000770	1296 Screw	1
21	8930003200	Spacer (P)	1
23	8930030480	1424 Knob plate	1
24			5
25		Screw PH B0 M2 x 4	2
26			7
27			2
28			4
			1
	i		6
i			3
- 1			6
- 1	i		1
1	f	, ,	1
i	i		1
			1
			3
	į	• • •	1
	25 26 27	25 8810000980 26 8810000210 27 8810002160 28 8810002160 29 8810000980 30 8810000980 31 8810000980 32 8930027960 33 8850001330 34 8810000210 35 8810003360 8930031160 39 8930032370	24 8810000980 Screw PH B0 M2 x 4 25 8810000980 Screw PH B0 M2 x 4 26 8810000210 Screw PH M3 x 4 27 8810002160 Screw FH M3 x 5 28 8810002160 Screw FH M3 x 5 29 8810000980 Screw PH B0 2 x 4 30 8810000980 Screw PH B0 2 x 4 31 8810000980 Screw PH B0 2 x 4 32 8930027960 1296 Pushing spring 33 8850001330 Insulate flat washer (M) 34 8810003360 Screw PH M3 x 4 35 8810003360 Set screw C M3 x 6 36 8930031160 1424 Sponge (B) 39 8930032370 Shaft tape (A)

[DISPLAY UNIT]

REF. NO.	ORDER NO.	DESCRIPTION	QTY.
W 7	8900004850	OPC-471 [VR unit for the main band]	1
W 8	8900004850	OPC-471 [VR unit for the sub band]	1
W 9	8900004850	OPC-471 [RIT unit]	1
DS 7	5030001000	LCD FTD-12525AAH	1
EP 2	8930031220	LCD contact SRCN-1424 SSW	1
MP 1	8210009490	1424 Reflector	1
MP 2	8930029570	1424 LCD holder	1
MP 3	8930029560	1424 LCD rubber	1
MP 4	8930030460	1424 LCD filter	1
MP 5	8930031150	1424 Sponge(A)	1
MP 6	8930032500	1424 Mask sheet	1
:			

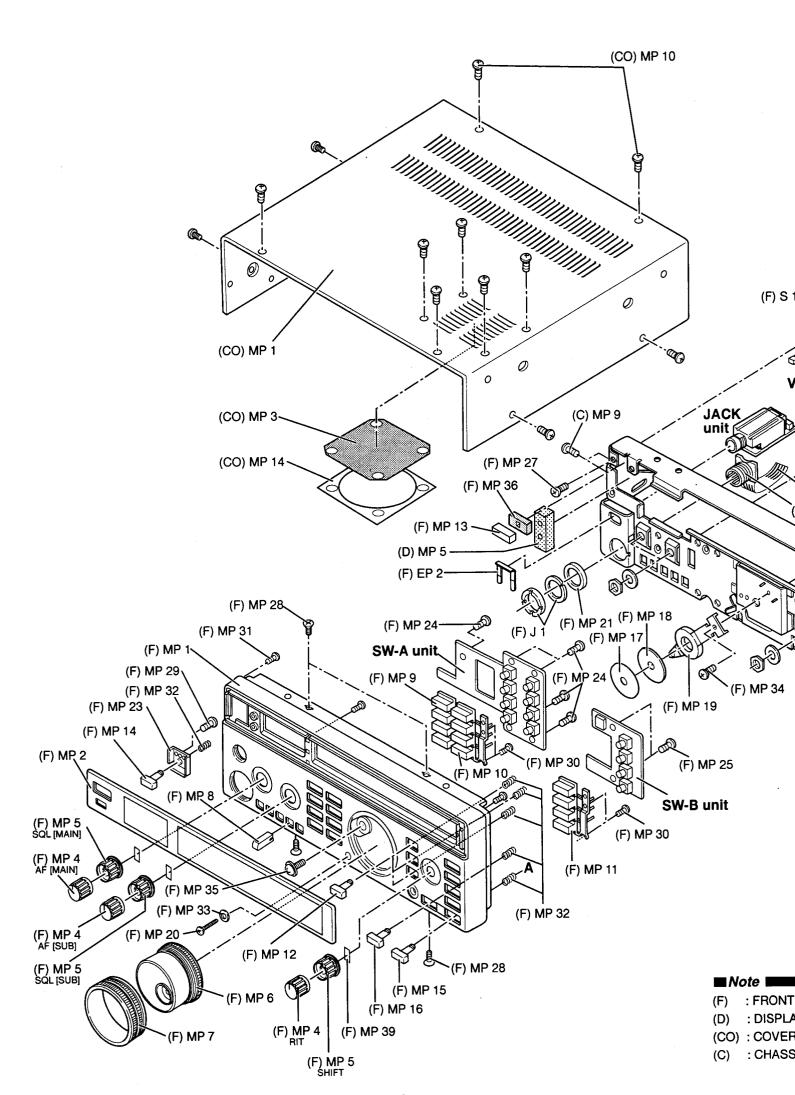
[COVER UNIT]

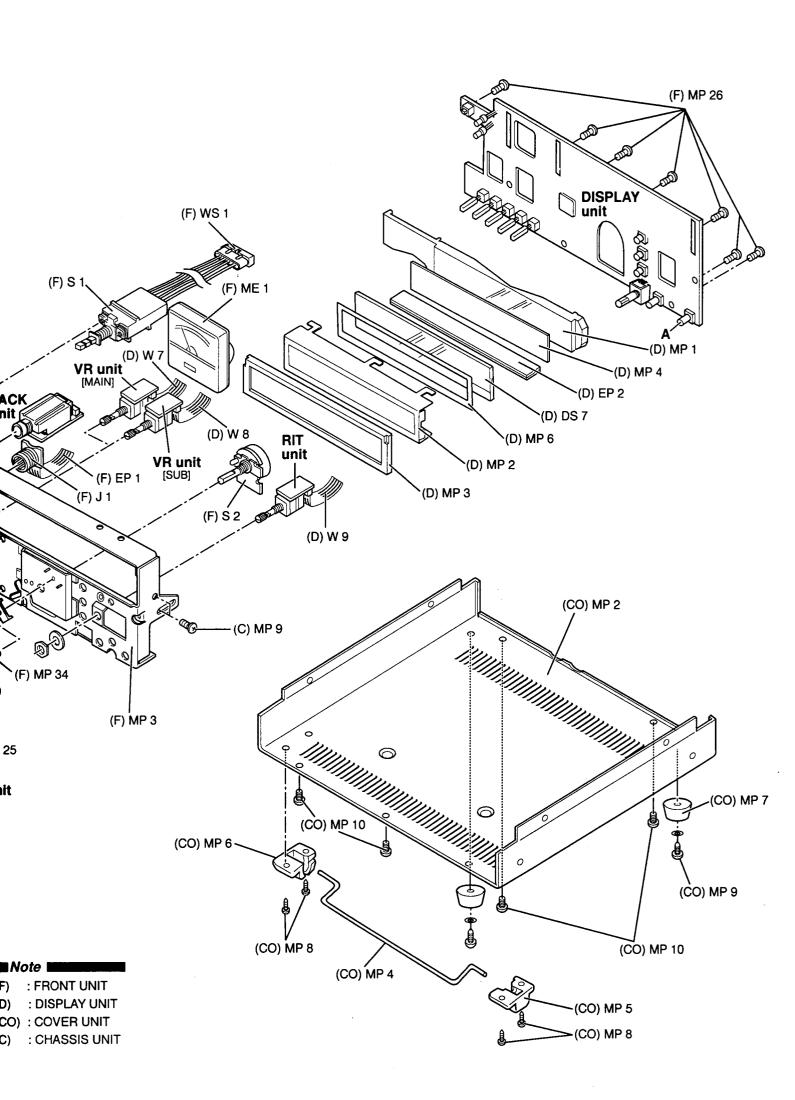
REF. NO.	ORDER NO.	DESCRIP	TION	QTY.
MP 1	8110005150	1424 Top cover		1
MP 2	8110005220	1424 Bottom cover		1
MP 3	8930006370	Sheet 401 Salan net		1
MP 4	8010001520	Stand (C)		1
MP 5	8930005790	Stand foot (A)		1
MP 6	8930005800	Stand foot (B)		1
MP 7	8930002900	Rubber foot (A)		2
MP 8	8810005520	Screw PH B1	3 x 8	4
MP 9	8810005540	Screw PH B1 ZK	4 x 10	2
MP 10	8810005510	Screw OH BS ZK	M3 x 6	16
MP 14	0803003230	Sheet 1413 A-Sheet	1	İ
	,			

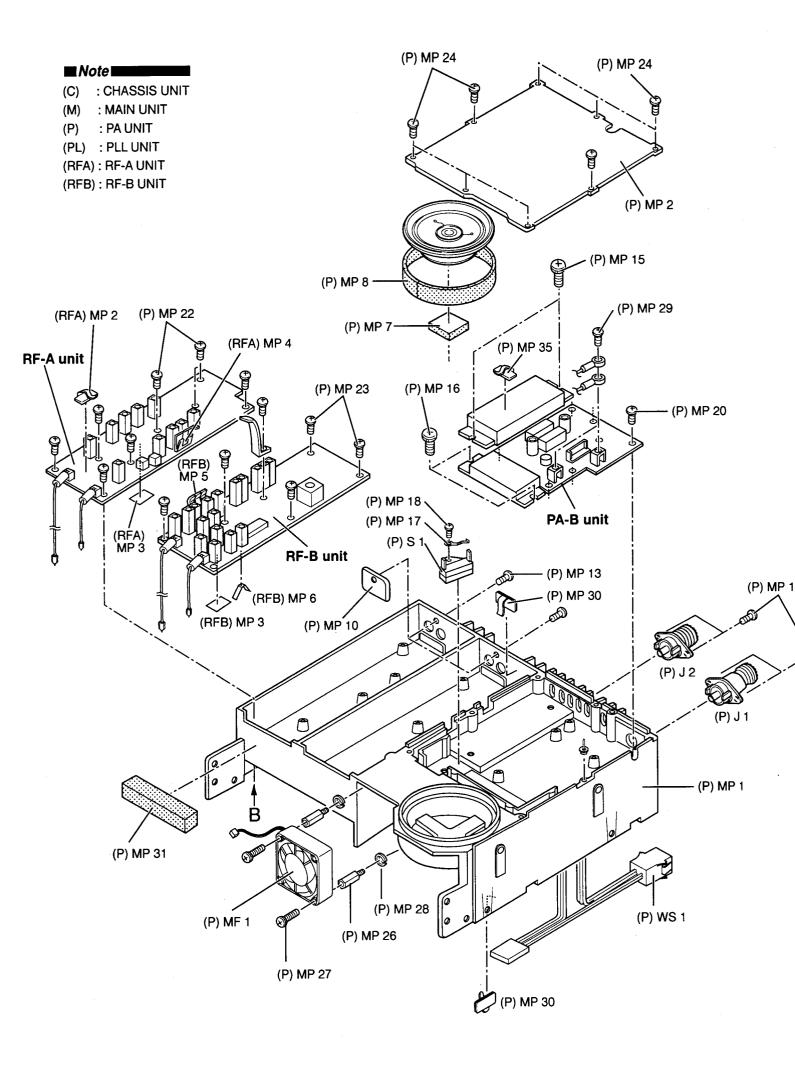
[CHASSIS UNIT]

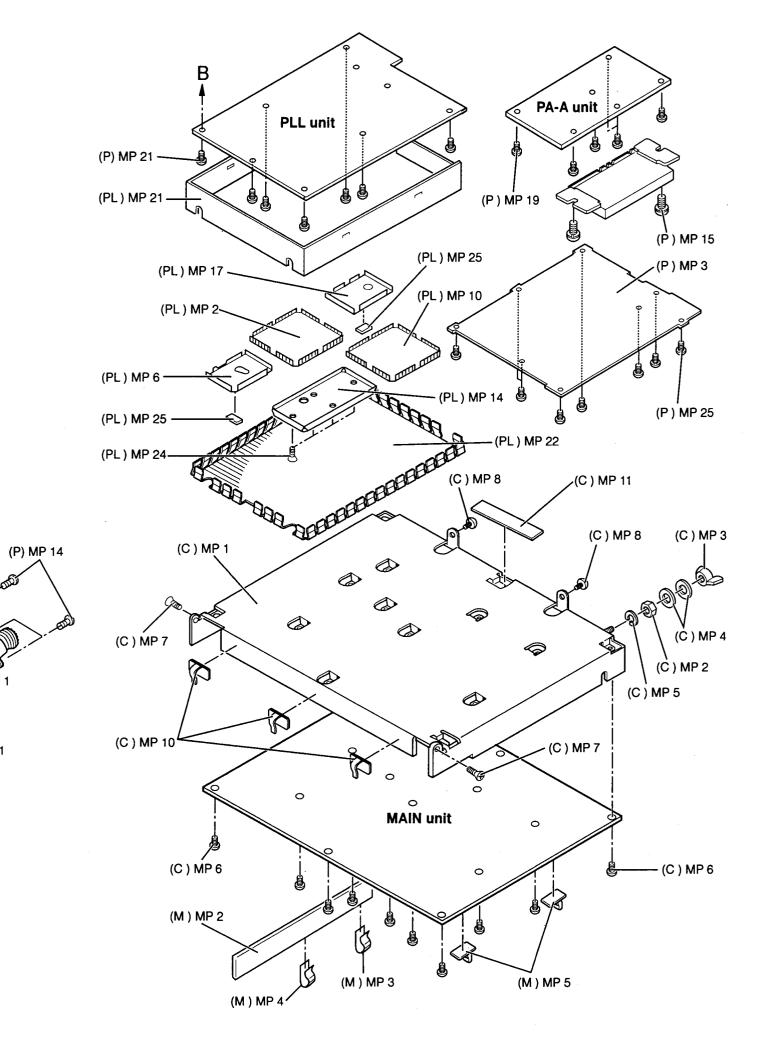
REF. NO.	ORDER NO.	DESCRIPTION	QTY.
MP 9	8810000210	Screw PH M3 x 4	4

Screw abbreviations: PH: Pan head OH: Oval countersunk head FH: Flat head B0, B1: Self-tapping BS: Brass NI: Nickel ZK: Black









7-2 CHASSIS PARTS

[CHASSIS UNIT]

REF. NO.	ORDER NO.	DESCRIPTION	
MP 1	8010015290	1424 Chassis	1
MP 2	8830000210	Nut M 5 NI BS	1
MP 3	8830000360	Wing nut M 5 NI	1
MP 4	8850000150	Flat washer M 5 NI BS	2
MP 5	8850000440	Spring washer M 5 NI	1
MP 6	8810008630	Screw PH BT M3 x 6 NI-ZU	14
MP 7	8810002170	Screw FH M3 x 6	2
MP 8	8810003660	ICOM screw A 5	2
MP 10	8950002460	Wire hook S-10 silver	3
MP 11	8930029070	insulate plate CU	1

[MAIN UNIT]

REF. NO.	ORDER NO.	DESCRIPTION	QTY.
MP 2	8410001500	MAIN heat sink	1
MP 3	8930020860	IC-holder	1
MP 4	8930027940	1126 TR-B clip	1
MP 5	8950002460	Wire hook S-10 silver	2

[PA UNIT]

REF. NO.	ORDER NO.	DESCRIPTION	ON	QTY.
S 1	6910000050	Thermal switch CHD-3 50	M 1	
J 1	6510004910	Connector NR-DS-E 01	(UHF)	1
J 2	6510004880	Connector MR-DS-E 01	[VHF]	1
MF 1	2710000480	MF40C-12H004	[FAN]	1
MP 1	8010015271	1424 Heatsink-1		1
MP 2	8510008641	PA-B Cover-1		1
MP 3	8510008651	PA-A Cover-1		1
MP 7	8930032290	Sponge (DQ)		1
MP 8	8930007831	401 Sponge (C)-1		1
MP 10	8930017300	TVJ hole cover		2
MP 13	8810001910	Screw PH	M3 x 6 NI BS	2
MP14	8810006070	Set screw A	M3 x 6 Ni	4
MP 15	8810003860	Set screw A	M4 x 8	2
MP16	8810007230	Set screw H	M3 x 8	2
MP 17	6910008240	Clip 59TN4772		1
MP 18	8810003170	Set screw A	M3 x 8	1
MP 19	8810001280	Screw PH B1	M2.6 x 6	6
MP20	8810001280	Screw PH B1	M2.6 x 6	8
MP21	8810008630	Screw PH BT	M3 x 6 NI-ZU	7
MP22	8810008630	Screw PH BT	M3 x 6 NI-ZU	8
MP23	8810008630	Screw PH BT	M3 x 6 NI-ZU	7
MP24	8810008630	Screw PH BT	M3 x 6 NI-ZU	8
MP 25	8810008630	Screw PH BT	M3 x 6 NI-ZU	8
MP26	8930000130	Stand-off (I)		2
MP27	8810003200	Set screw A	M3 x 14	2
MP 28	8850000420	Spring washer	M3 NI	2

Screw abbreviations: PH: Pan head FH: Flat head B1: Self-tapping BS: Brass NI: Nickel

[PA UNIT]

REF. NO.	ORDER NO.	DESCRIPTI	ON	QTY.
MP 29	8810003160	Set screw A	M3 x 6	2
MP30	8950002460	Wire hook S-10 silver		2
MP31	8930020990	Sponge (CN)		1
MP 35	8950002460	Wire hook S-10 silver		1
WS 1	8600032451	SX1425 P01*03PA-1 (B)	(EUR, SWE)	1
WS 1	8600032970	SX1425 P01*03PA (A)	(USA, AUS)	1

[PLL UNIT]

REF. NO.	ORDER NO.	DESCRIPTION	
MP 2	8510008310	963 DDS Shield cover	
MP 6	8510000200	194 VCO Shield cover (B)	
MP10	8510008310	963 DDS Shield cover	
MP14	8510003120	323 VCO Shield cover	1
MP 17	8510006510	194 VCO Shield cover (E)	1
MP21	8510002922	PLL case-4	1
MP 22	8510008930	1424 PLL U-cover	1
MP24	8810002160	Screw FH M3 x 5	4
MP 25	8930001510	Sponge (V)	3

[RF-A UNIT]

REF. NO.	ORDER DESCRIPTION NO.		QTY
MP 2	8950002460	Wire hook S-10 silver	1
MP 3	8510002280	VCO shield plate (A)	1
MP 4	8930001180	Grounding holder	1

[RF-B UNIT]

REF. NO.	ORDER NO.	DESCRIPTION		
MP 3	8510002280	VCO shield plate (A)		1
MP 5	8930001180	Grounding holder		1
MP 6	8930014140	Grounding spring (D)	•	1
MP 6	8930014140	Grounding spring (D)	•	
	1			1

[ACCESSORIES]

NO. NO.			DESCRIPTION		
w	1	8900000220	DC power cable (OPC-025A)		
F	1	5210000080	Fuse FGB 20 A	2	
F	2	5210000180	Fuse FGMB 125 V 5 A	1	
J	1	6450001280	DIN plug TCP0587-71-5401		
MP	1	8810001650	Screws (PH FT M3 x 6, for optional MB-23)	4	
MP	2	8810008430	Screws (OH ST M4 x 10 CR, for optional MB-23)	2	

7 - 4

SECTION 8 SEMI-CONDUCTOR INFORMATIONS

8-1 TRANSISTORS

NAME	SYMBOL	INSIDE VIEW
2SA1586-GR	SG	C B E
2SB1123T-TD	BF	C B C E
2SC2053	_	C B
2SC2538	-	ECB E
2SC2407(A)	-	BEC BE
2SC2714-Y	QY	
2SC3356 R24-T2B	R24	B E
2SC3357-T2	RK	
2SC3650-TD	CF	B C E
2SC3661-TA	FY	
2SC4116-GR	LG	Č
2SC4213-B	AB	
2SC4215-O	QO	B E
2SC4226-T2 R25	R25	
2SJ144-GR	VG	G G G G G G G G G G G G G G G G G G G

NAME	SYMBOL	INSIDE VIEW
2SK210-GR	YG	\$
2SK882-GR	TG	
2SK302-Y	TY	S C C C C C C C C C C C C C C C C C C C
2SK508 K52 T2B	R52	
2SK1577-2-T7	P2	
2SK536-TA	BJ	S C C C C C C C C C C C C C C C C C C C
2SK2171-4-TD	КМ	G J S S
3SK131-T2-LA	V12	G2 G1
3SK228XR-TL	XR	
DTA114EU T107	14	C B E
DTC114EU T107	24	
DTC144EU T107	26	B E

NAME	SYMBOL	INSIDE VIEW
FMW1 T148	W1	C1 C2
RN2425	RE	[at]
RN2427	RG	B E
UMD3 TL	D3	

8-2 DIODES

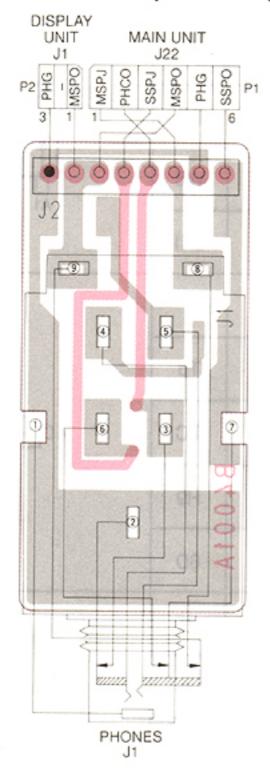
NAME	SYMBOL	INSIDE VIEW
1SS184	B3	K
1SS301	B3	A1 A2
1SS300	А3	A
HSM88AS-TR	C1	A K
RD3.6M-T2B2	362	
RD5.1M-T2B2	512	<u> </u>
RD6.2M-T2B2	622	1
RD9.1M-T2B3	913	Å U
RD20M-T2B2	202	

NAME	SYMBOL	INSIDE VIEW
1SS272	A1	K1 K2
1SV237	BB	K1 K2
DWA010-TE	W8	1 II
MA862	D1I	
1SV166-T2B	-	
1SV217	Т6	
1SV239	тс	A□ -MF DK
MA338	H9	
MA363B	6D	
1SS353	С	
HSU88TRF	9	
MA77	4B	ACI→III DK
MI308	_	
MI407	-	
MI809-T11	-	A

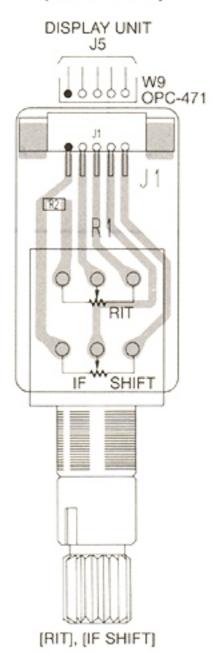
SECTION 9 BOARD LAYOUTS

9-1 FRONT UNIT

• JACK UNIT (TOP VIEW)

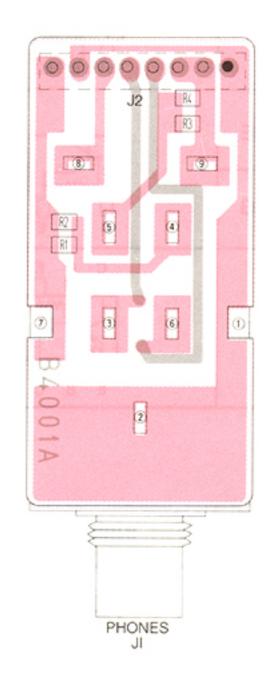


• RIT UNIT (TOP VIEW)

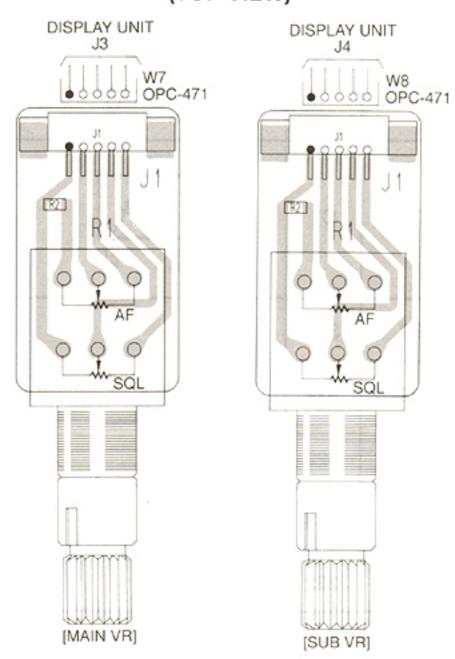


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JACK UNIT (BOTTOM VIEW)

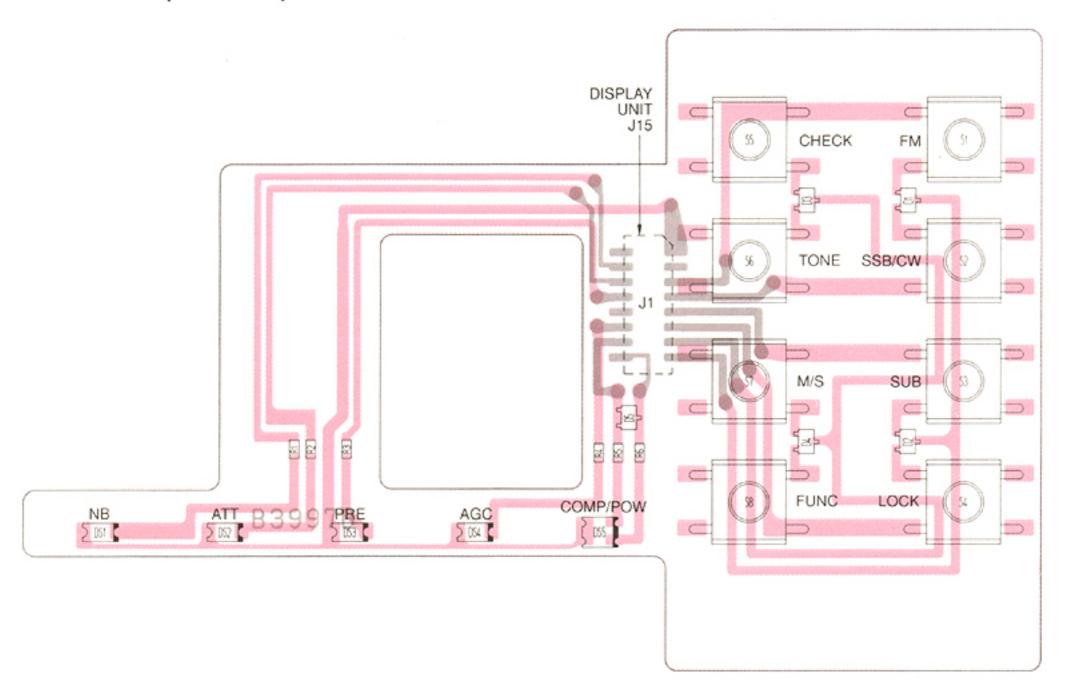


 VR UNIT (TOP VIEW)

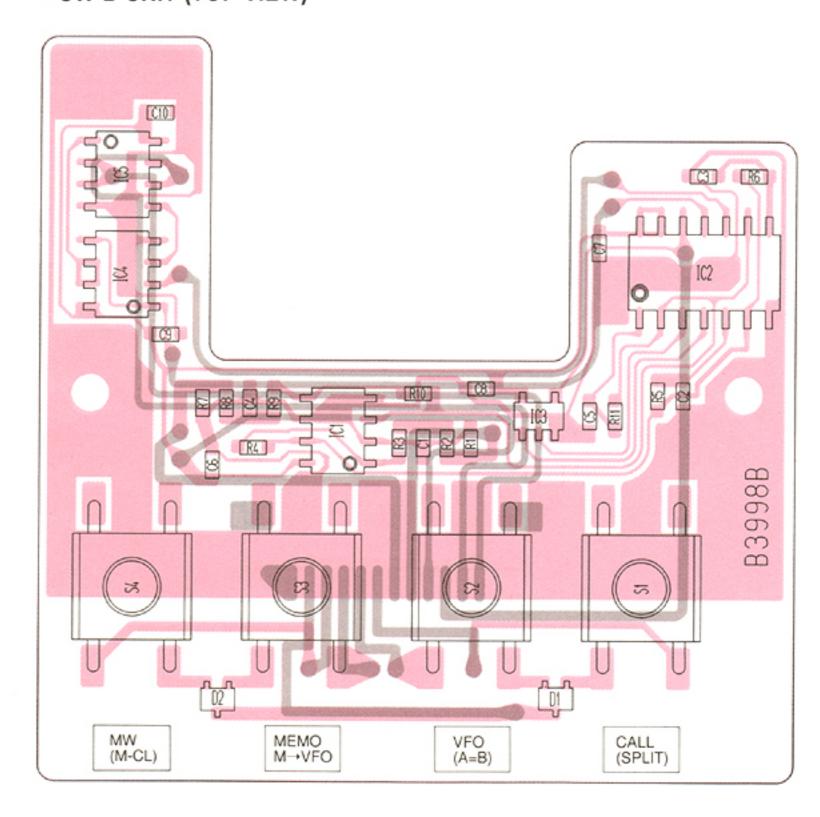


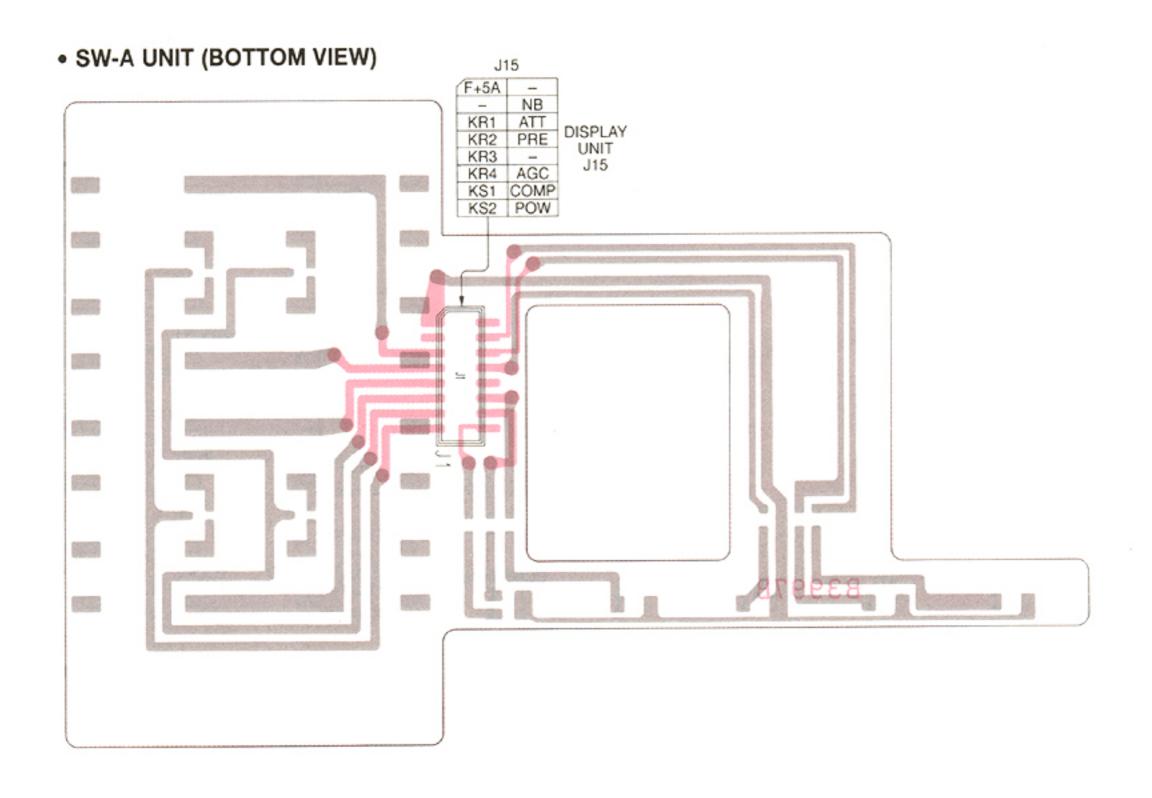
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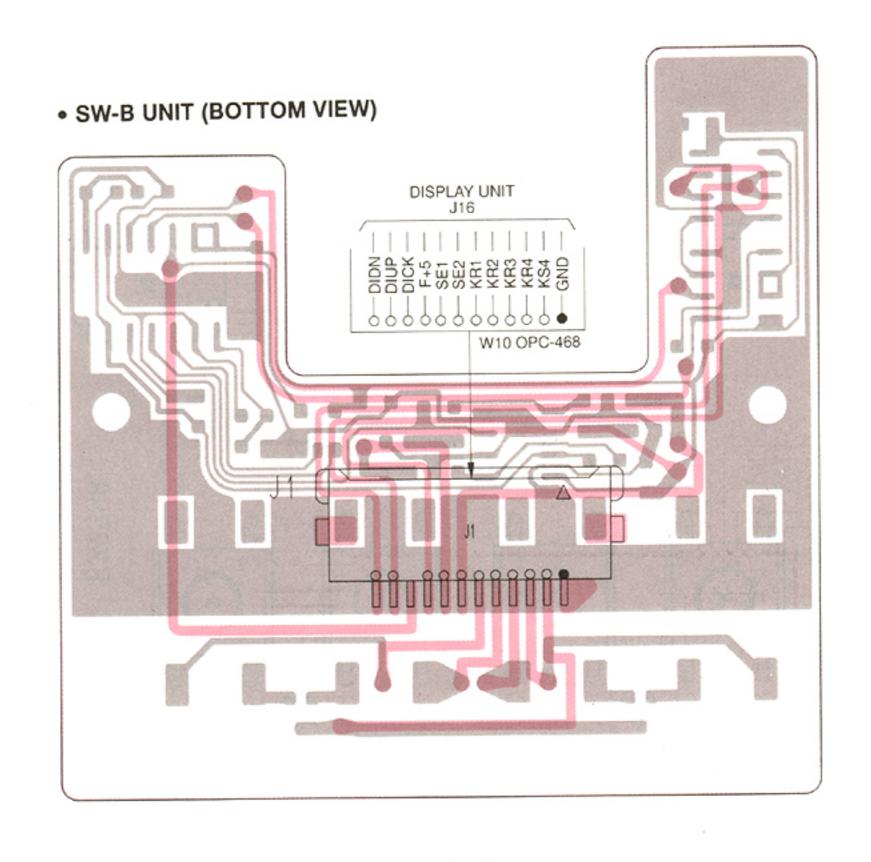
• SW-A UNIT (TOP VIEW)



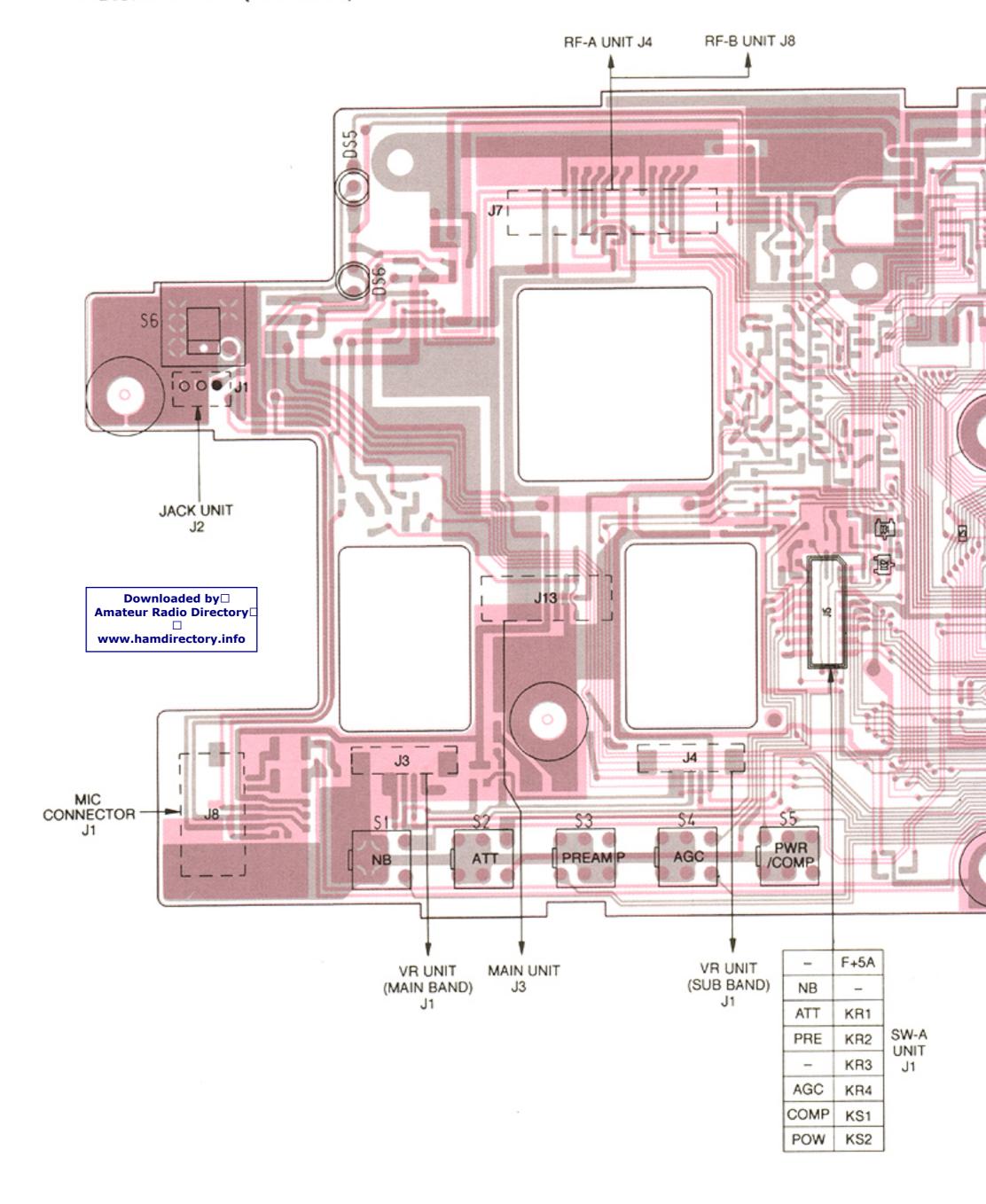
• SW-B UNIT (TOP VIEW)

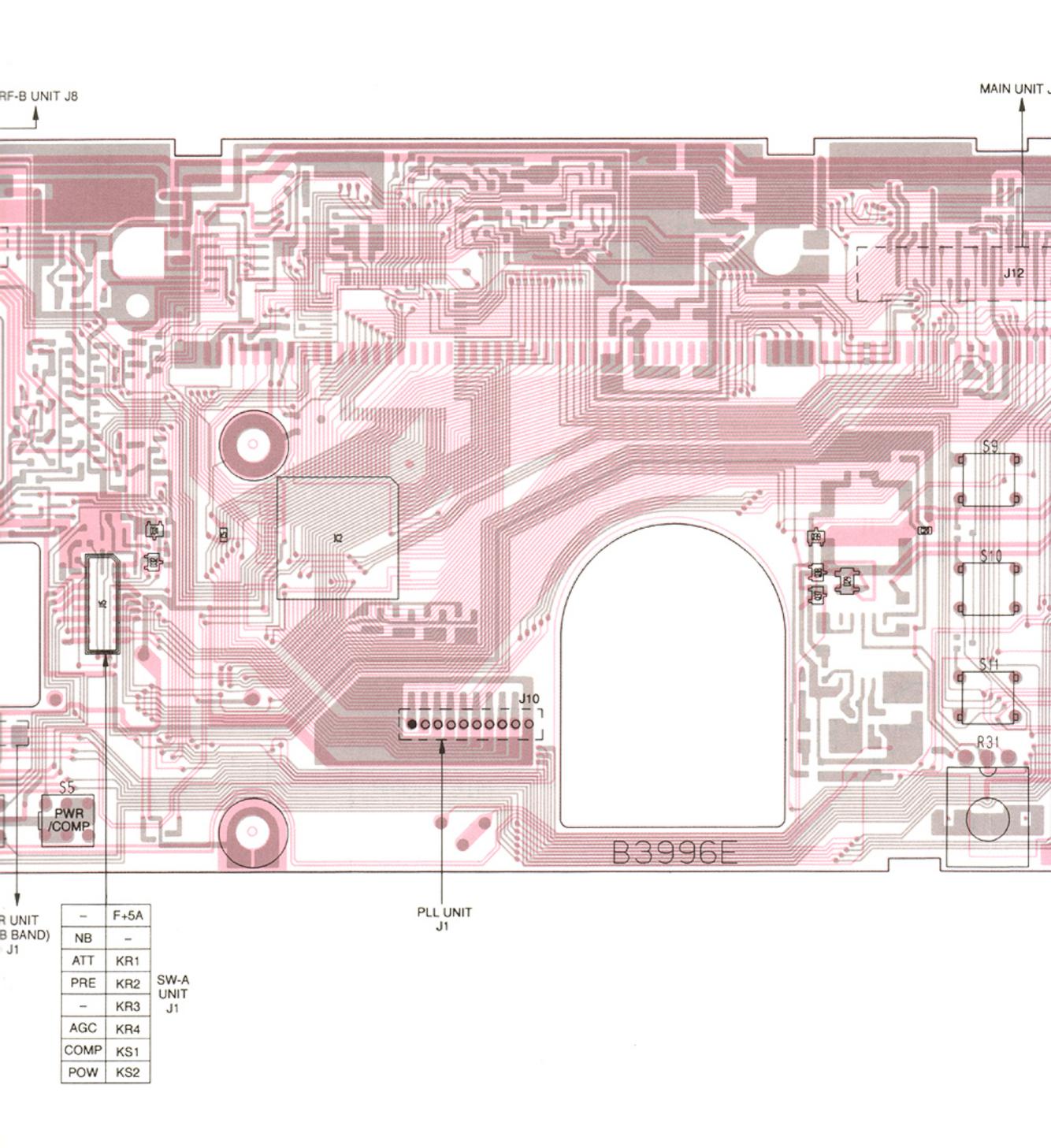




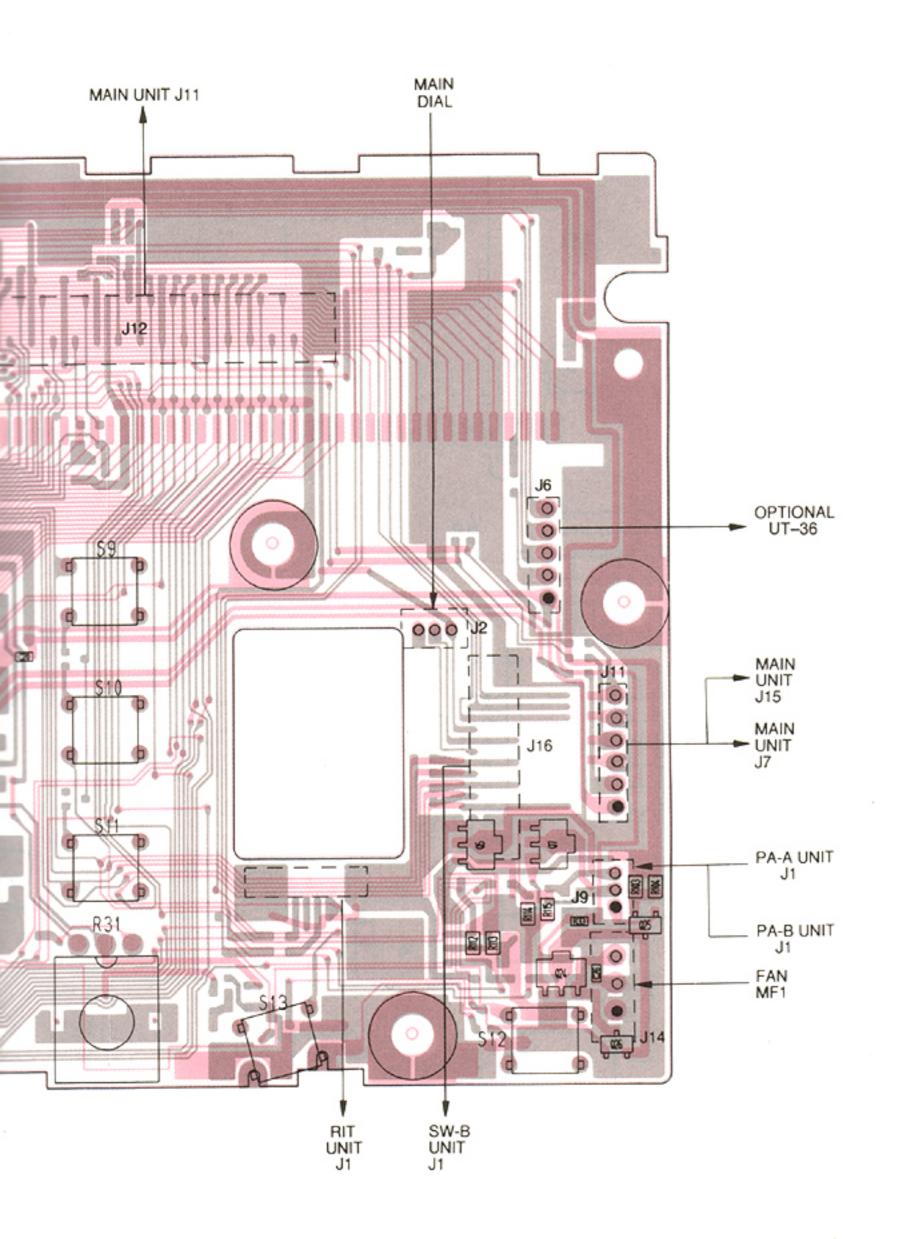


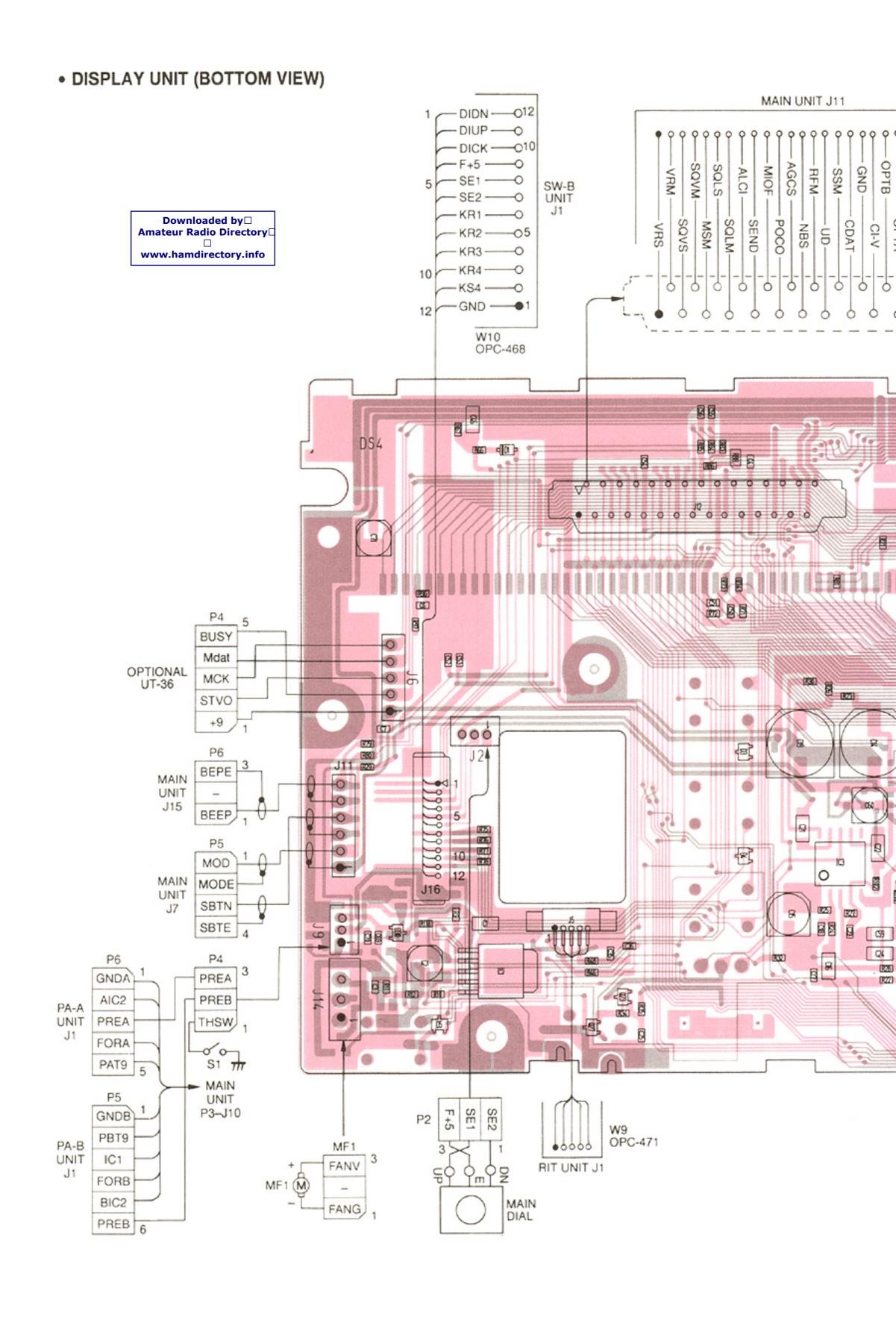
• DISPLAY UNIT (TOP VIEW)

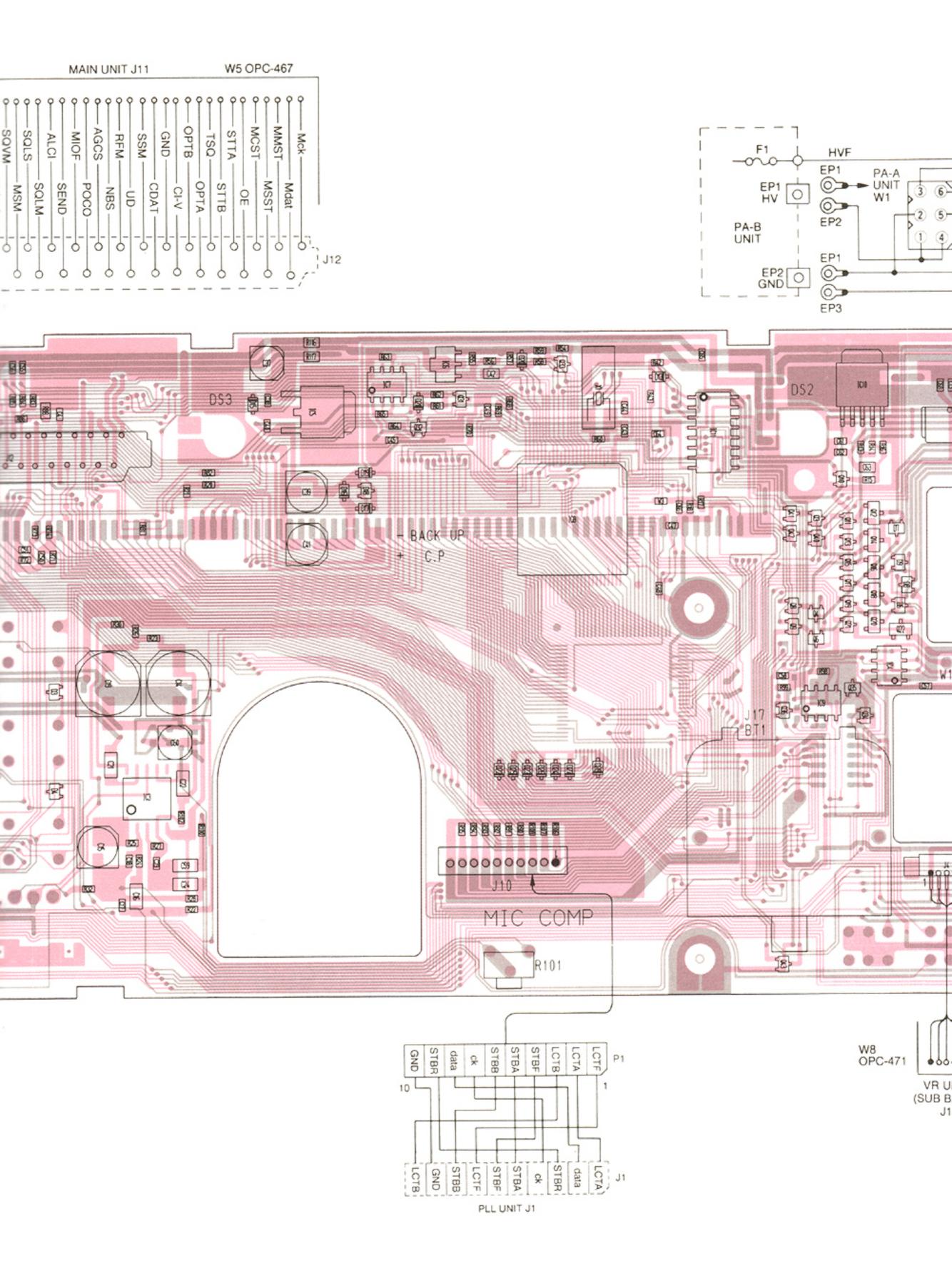


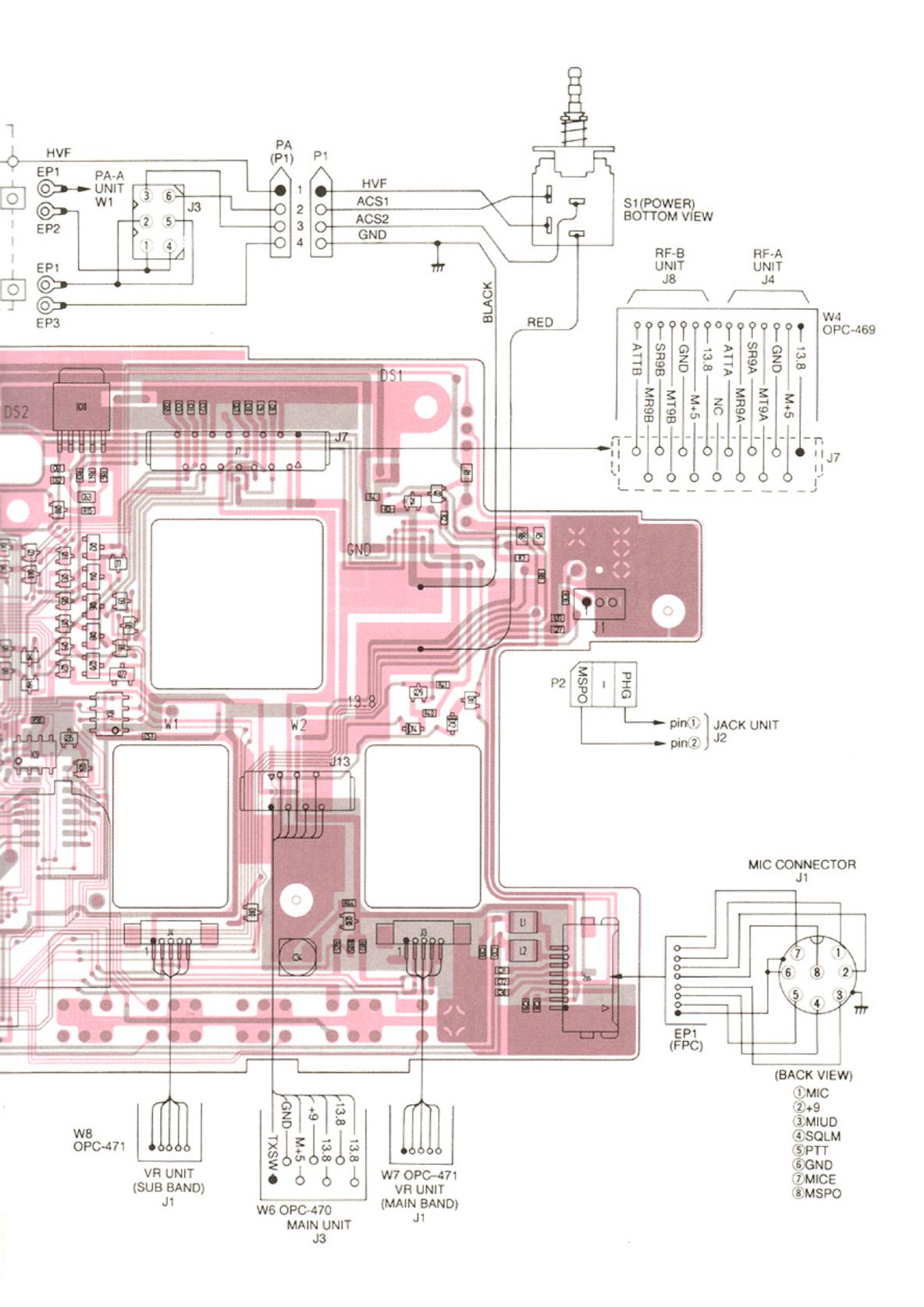


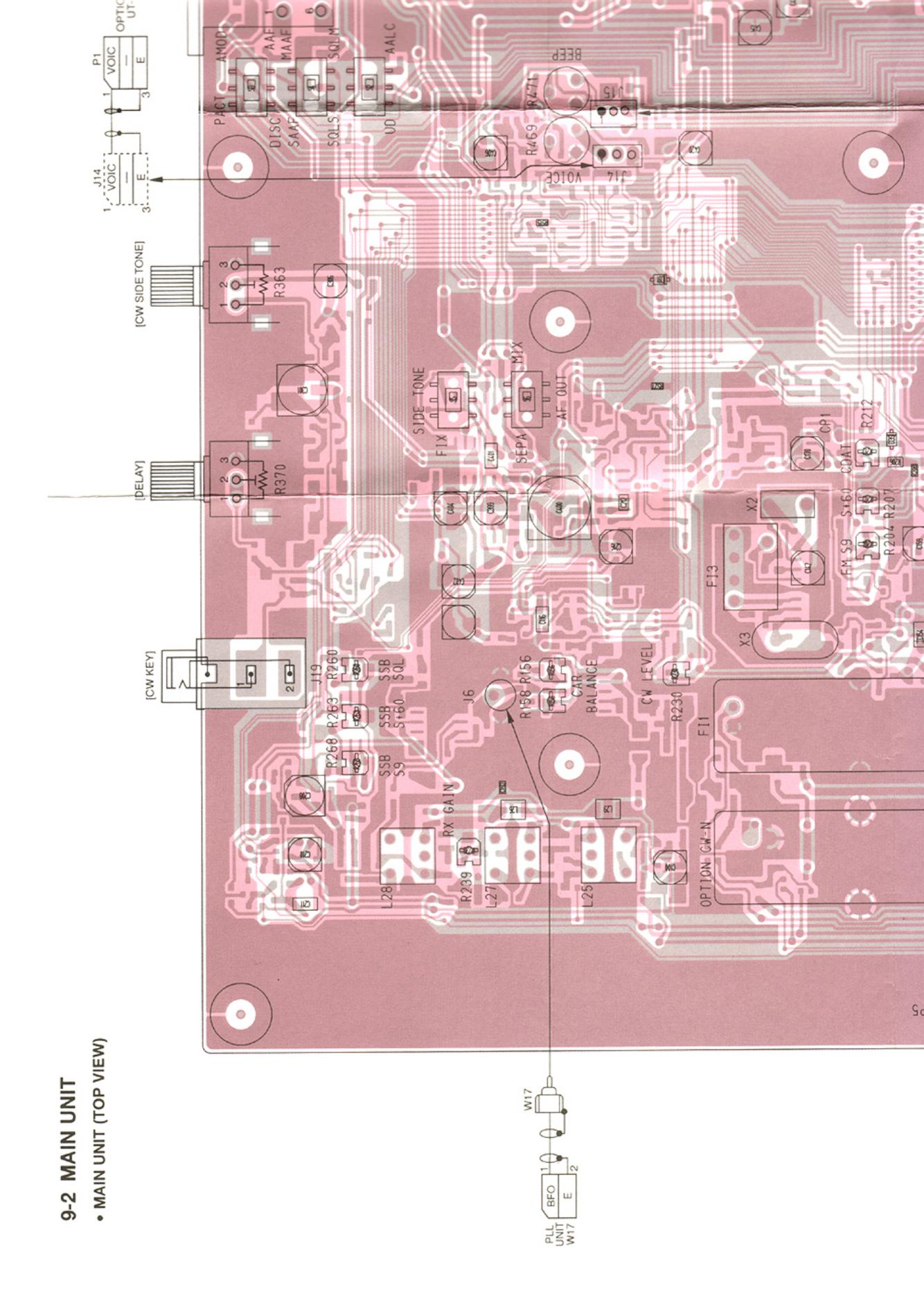
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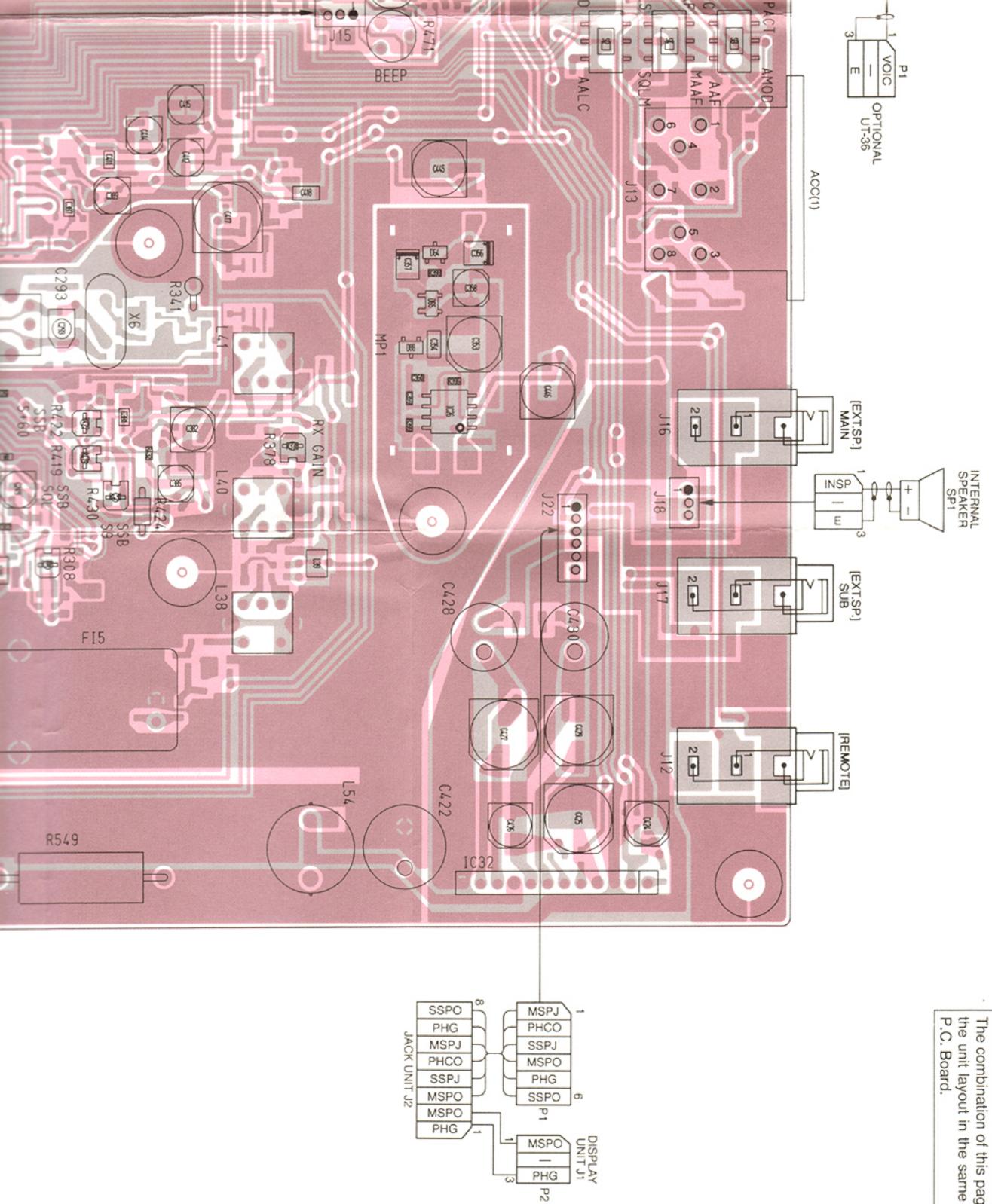




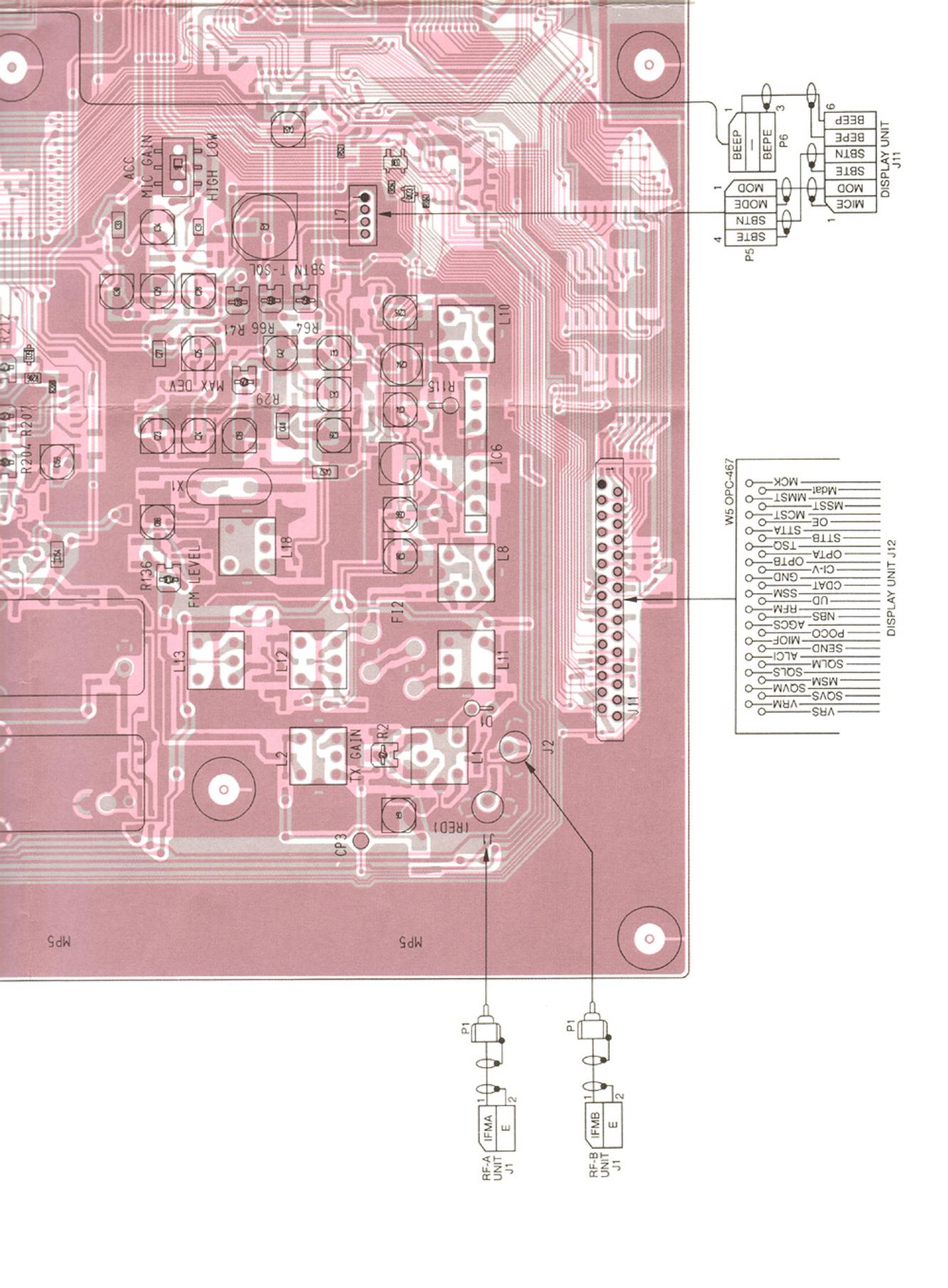


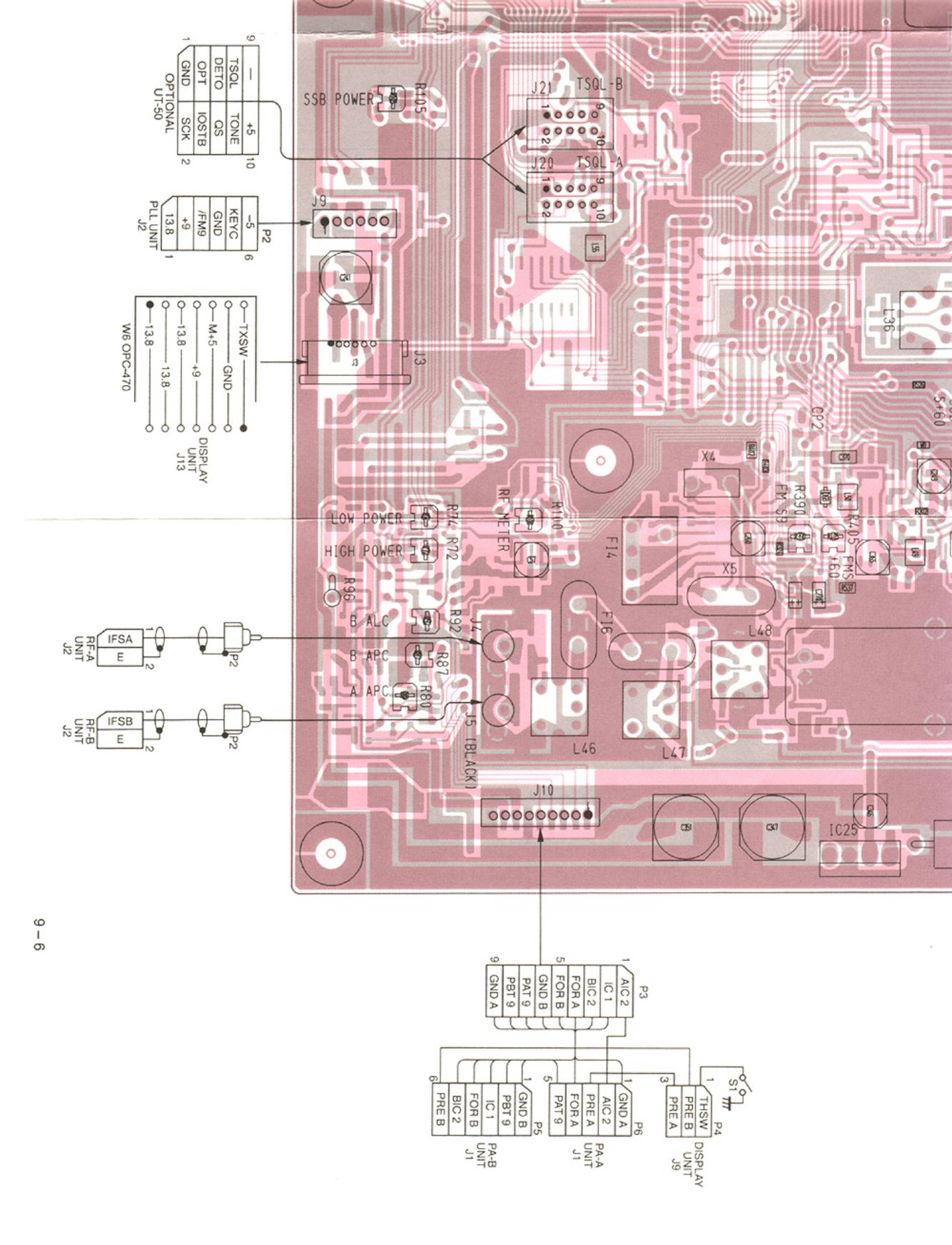


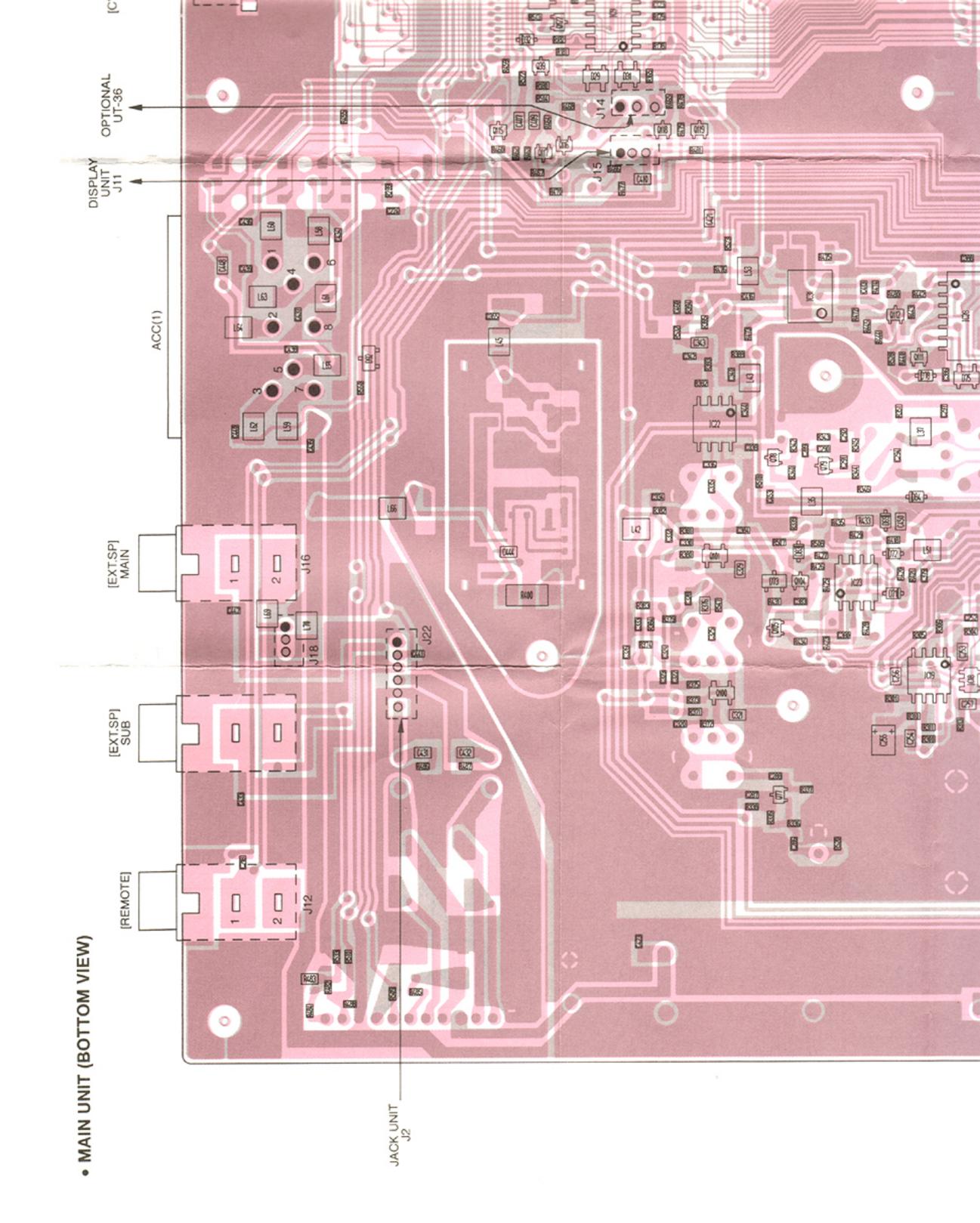


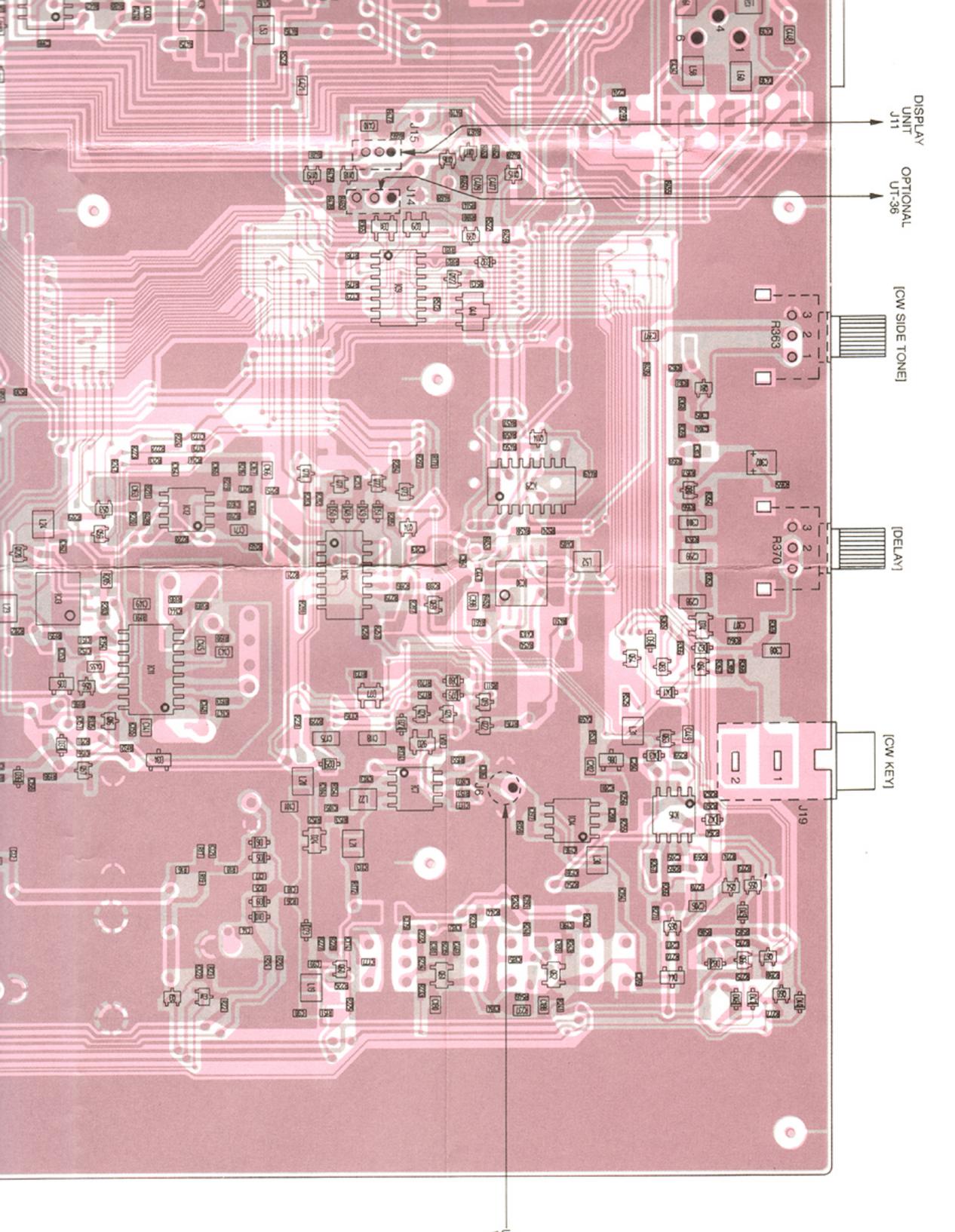


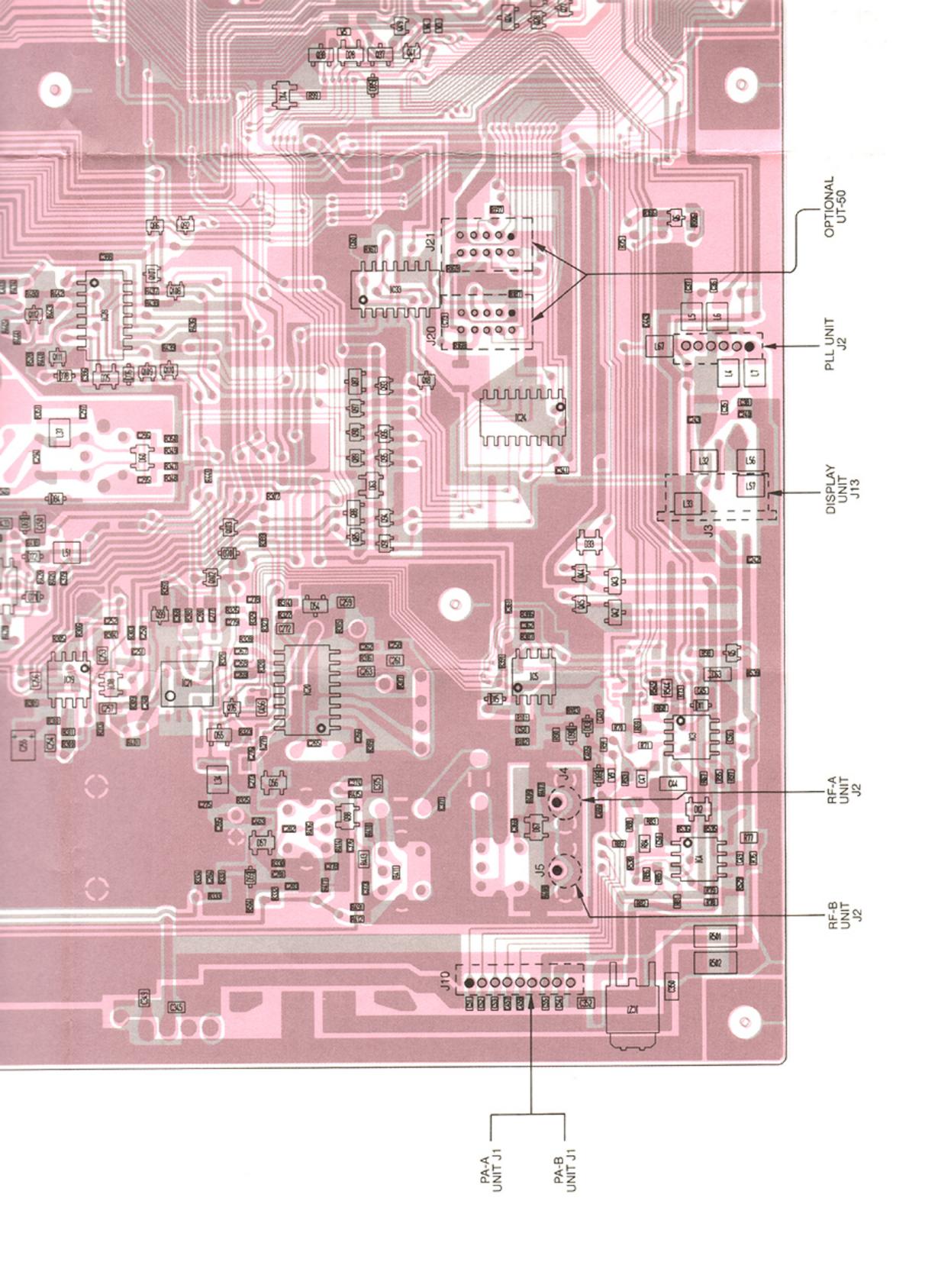
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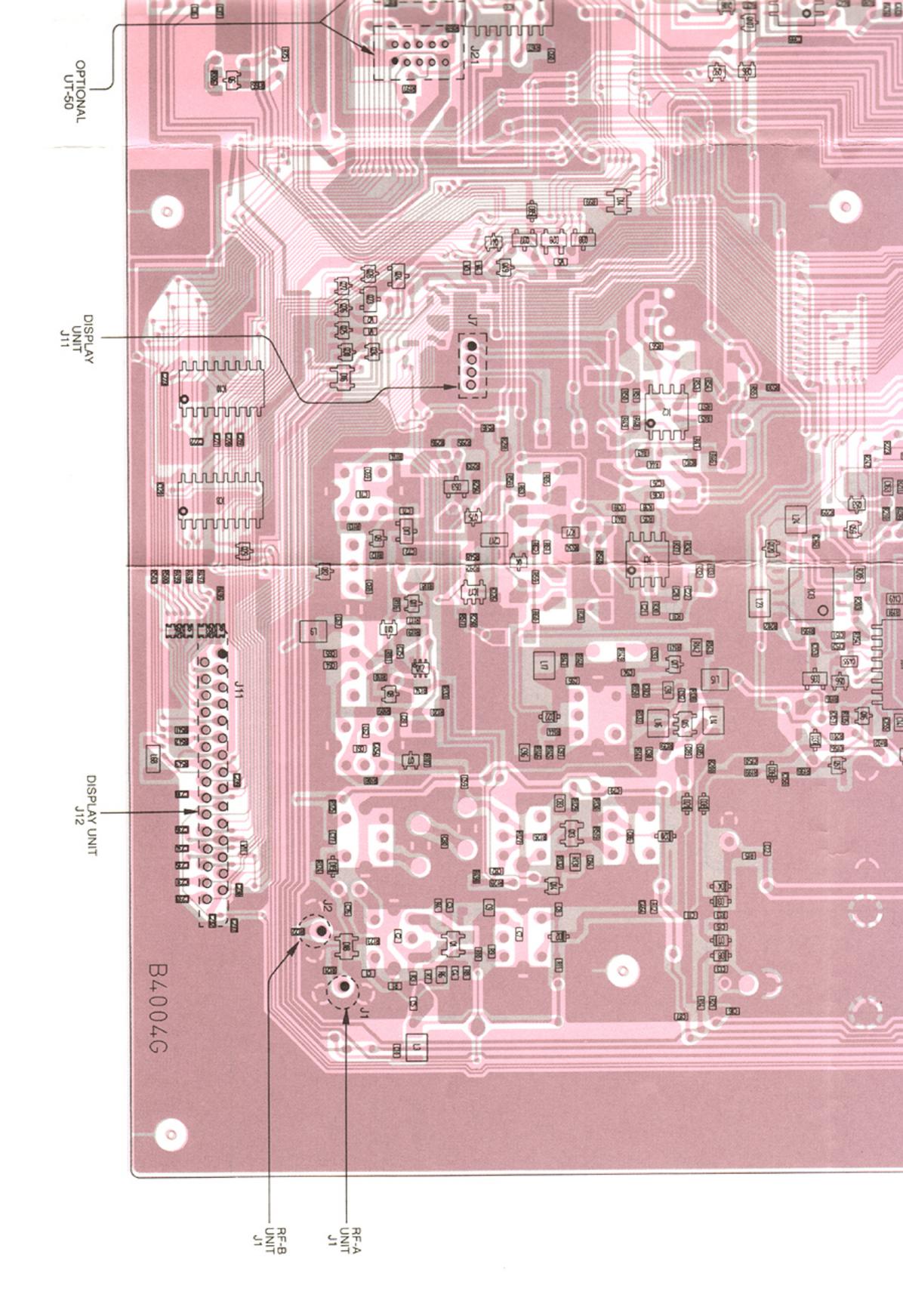






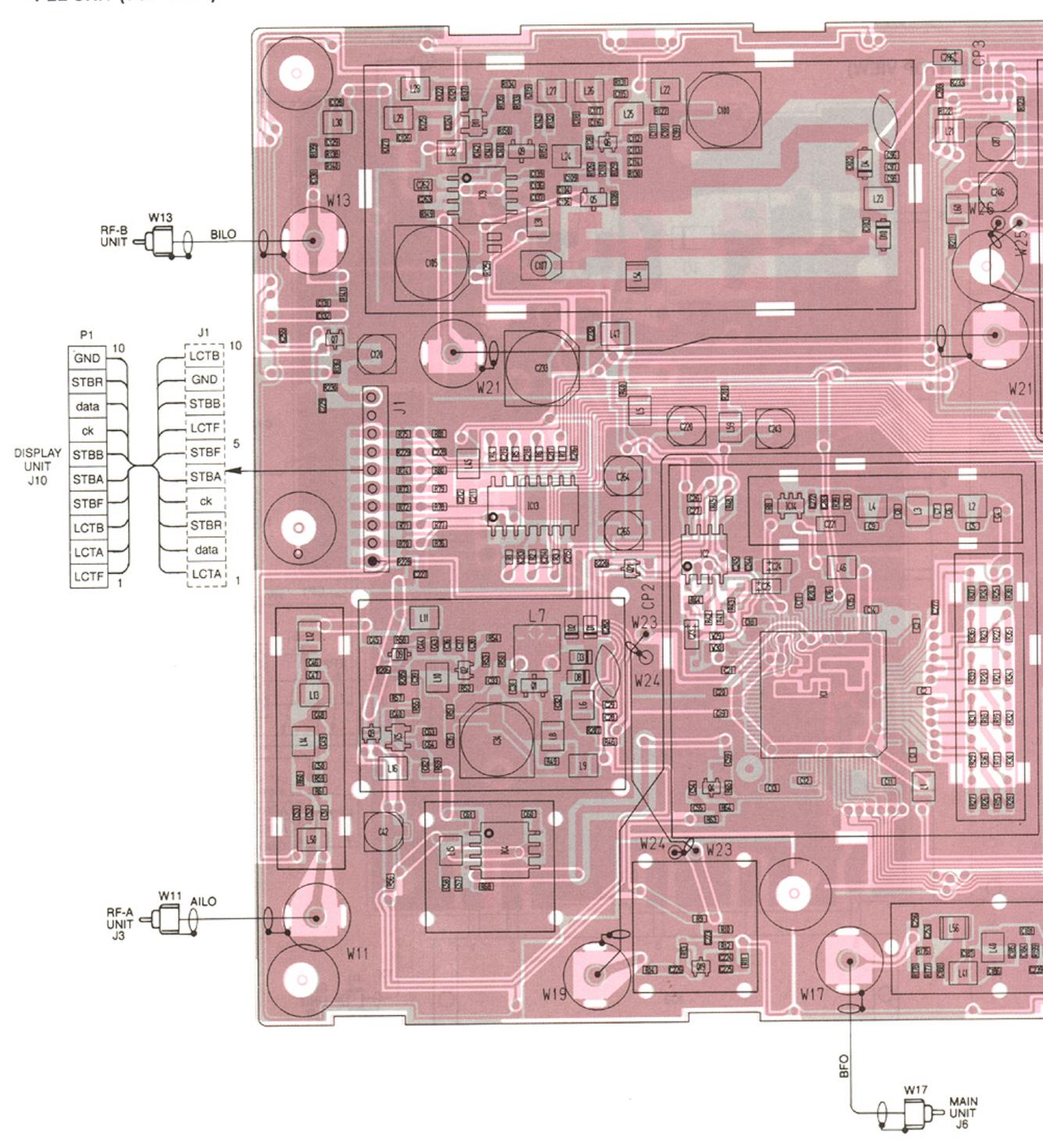


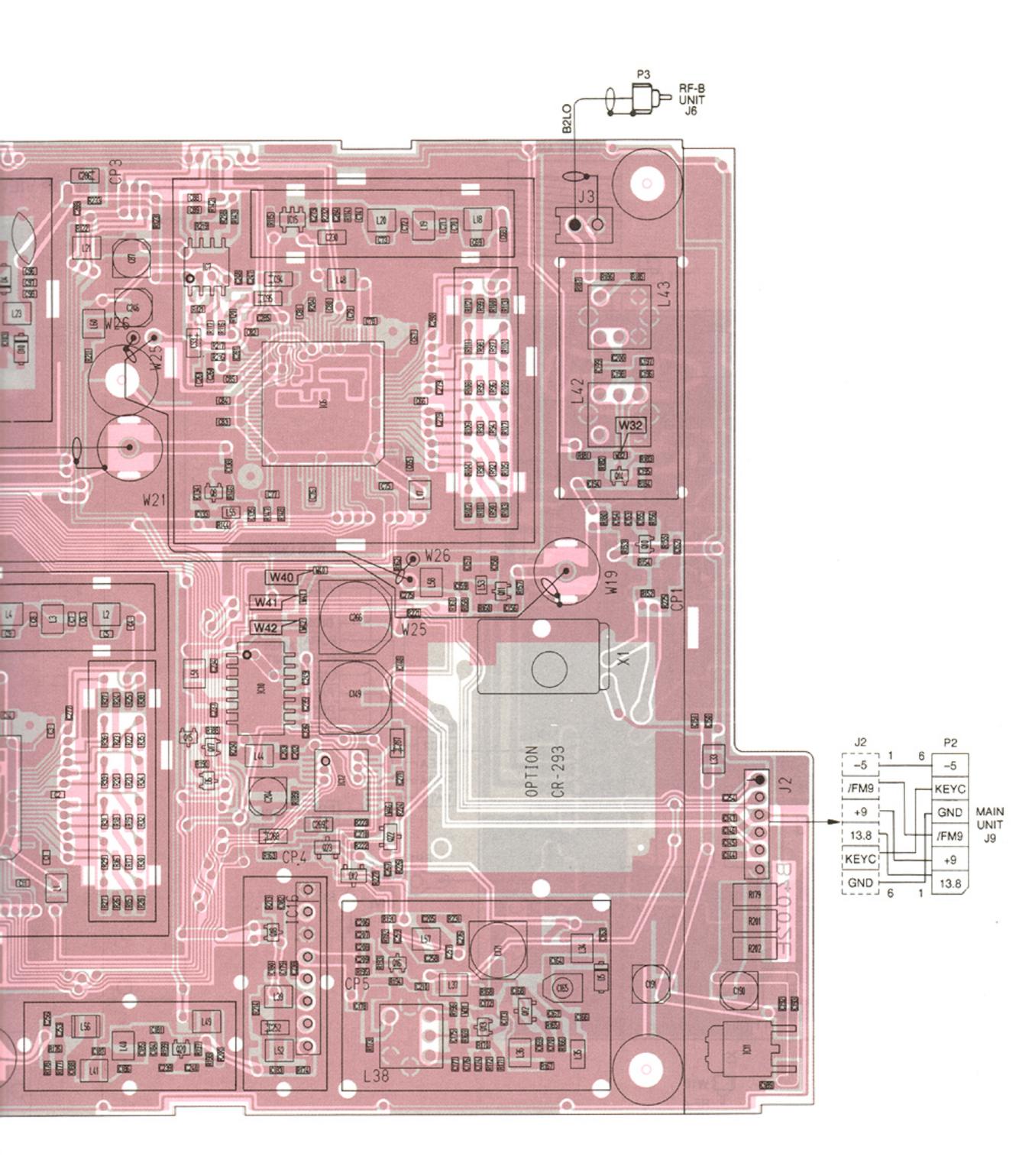


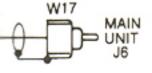


9-3 PLL UNIT

• PLL UNIT (TOP VIEW)

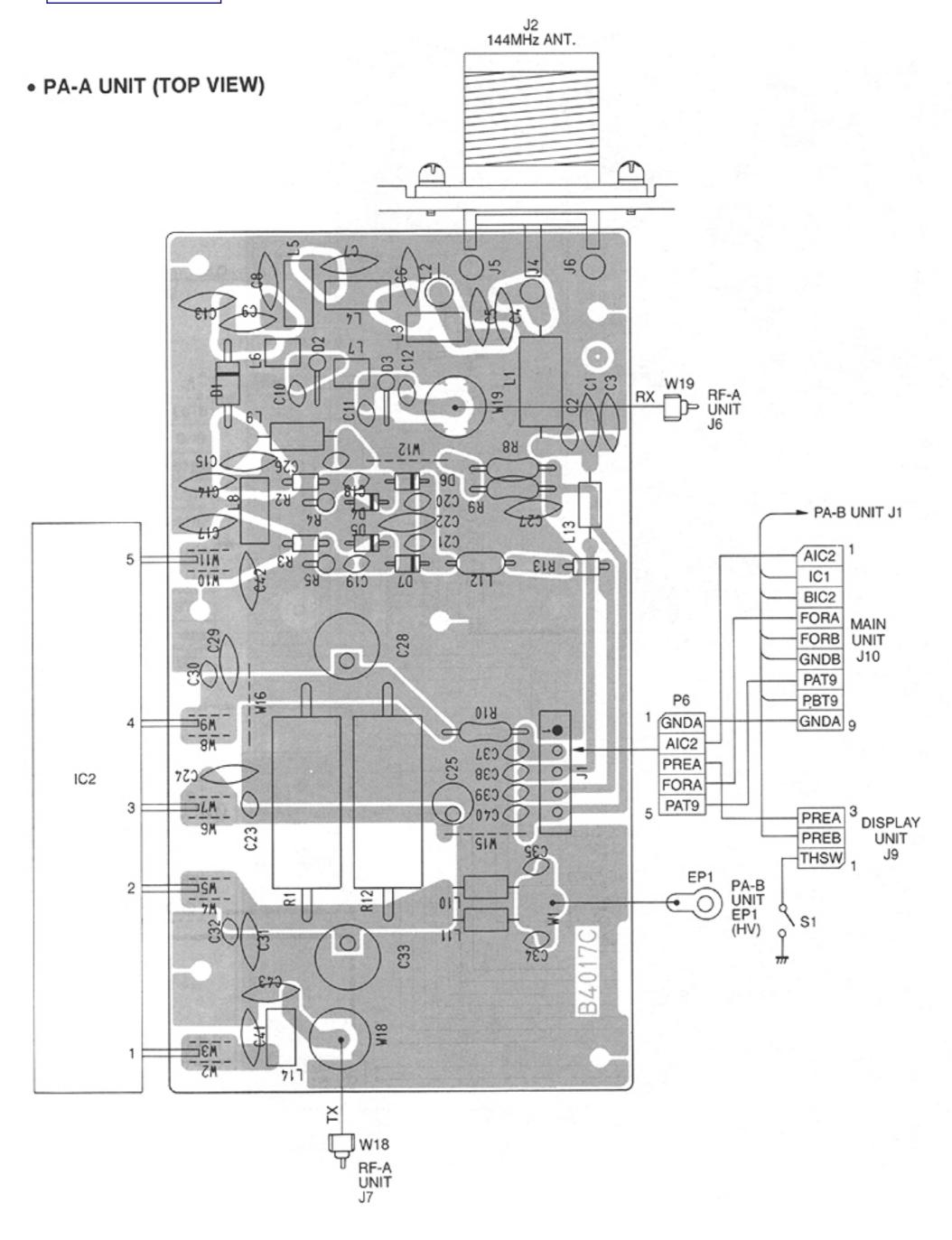


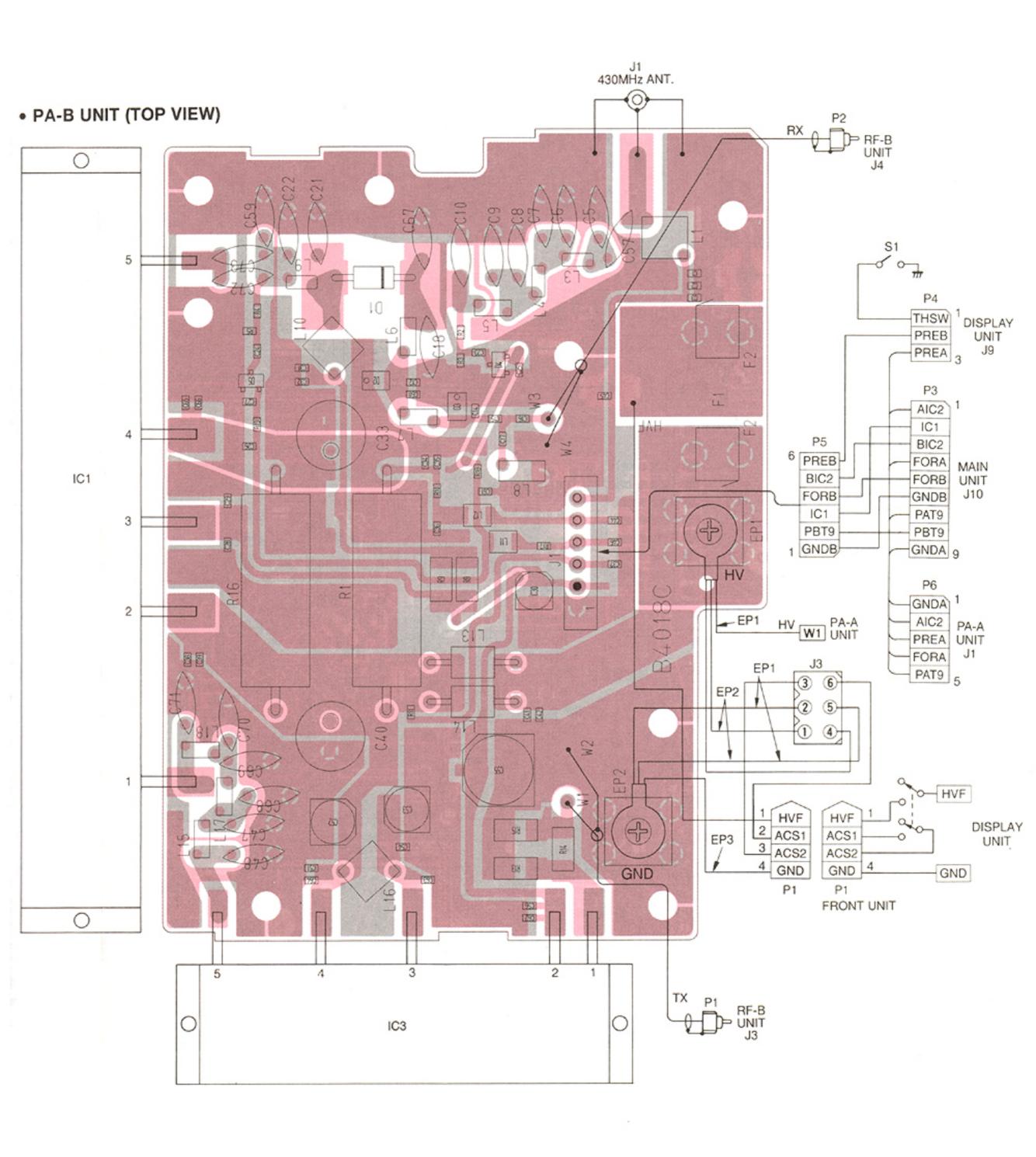




9-4 PA-A AND PA-B UNITS

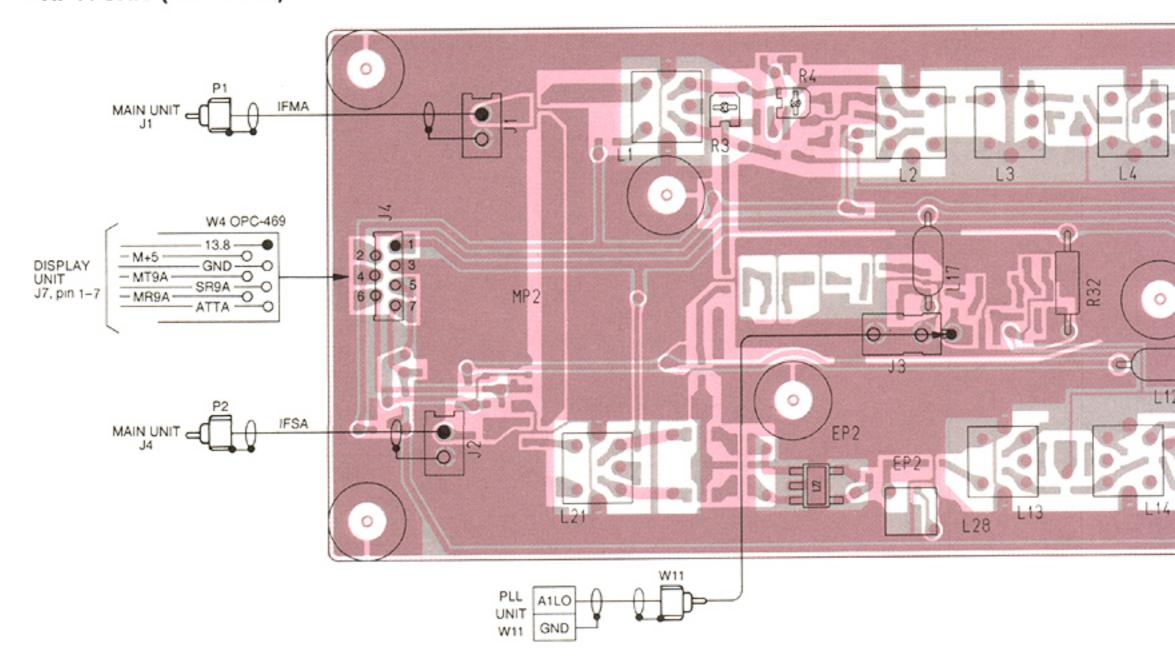




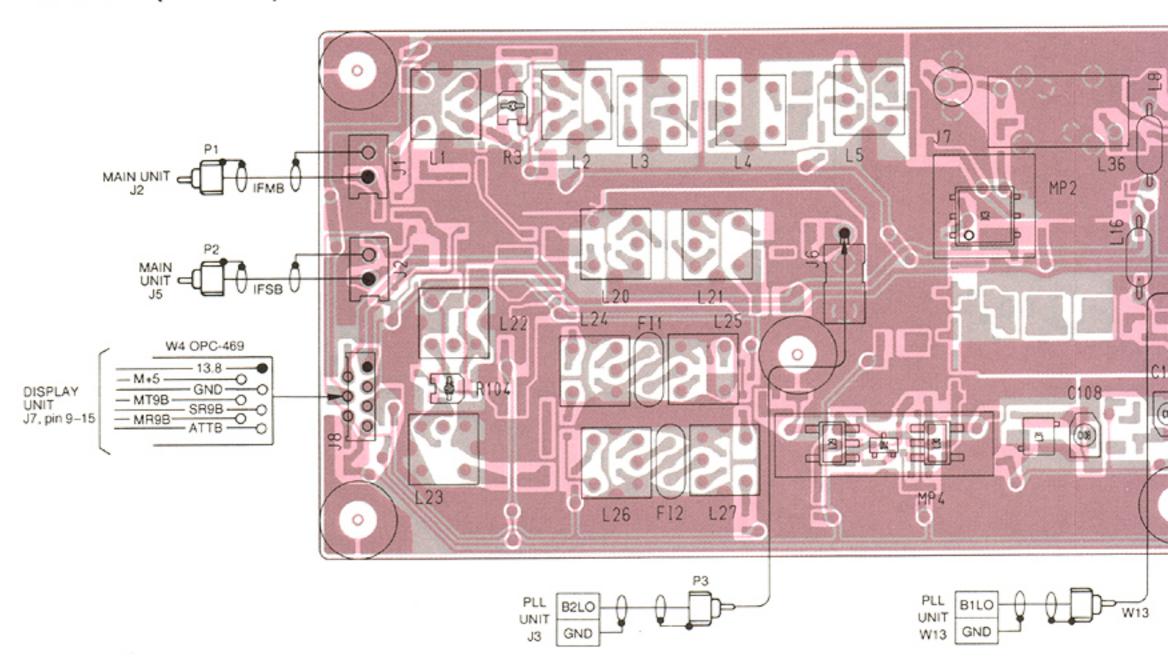


9-5 RF-A AND RF-B UNITS

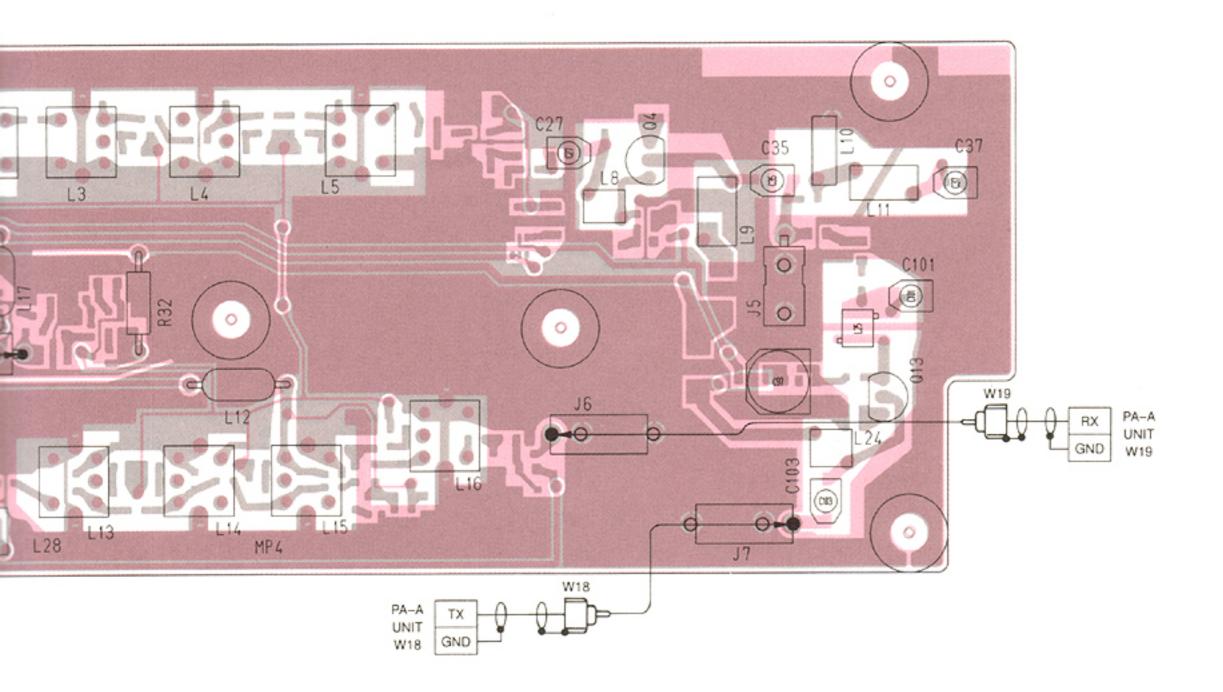
• RF-A UNIT (TOP VIEW)

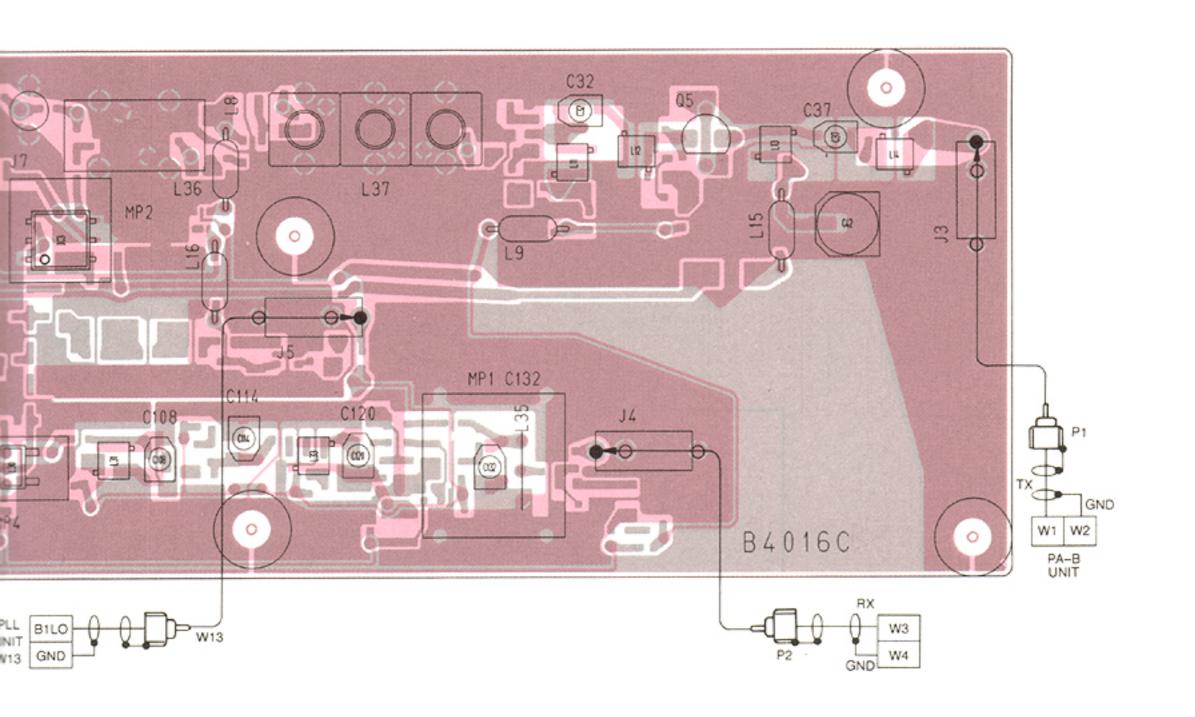


• RF-B UNIT (TOP VIEW)

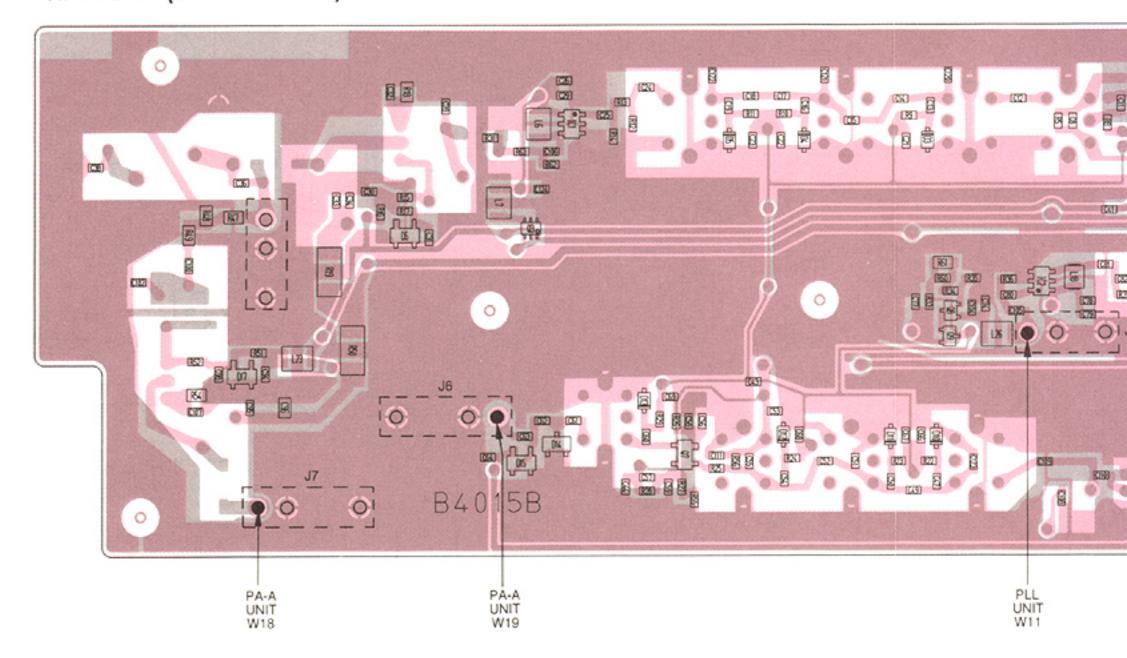


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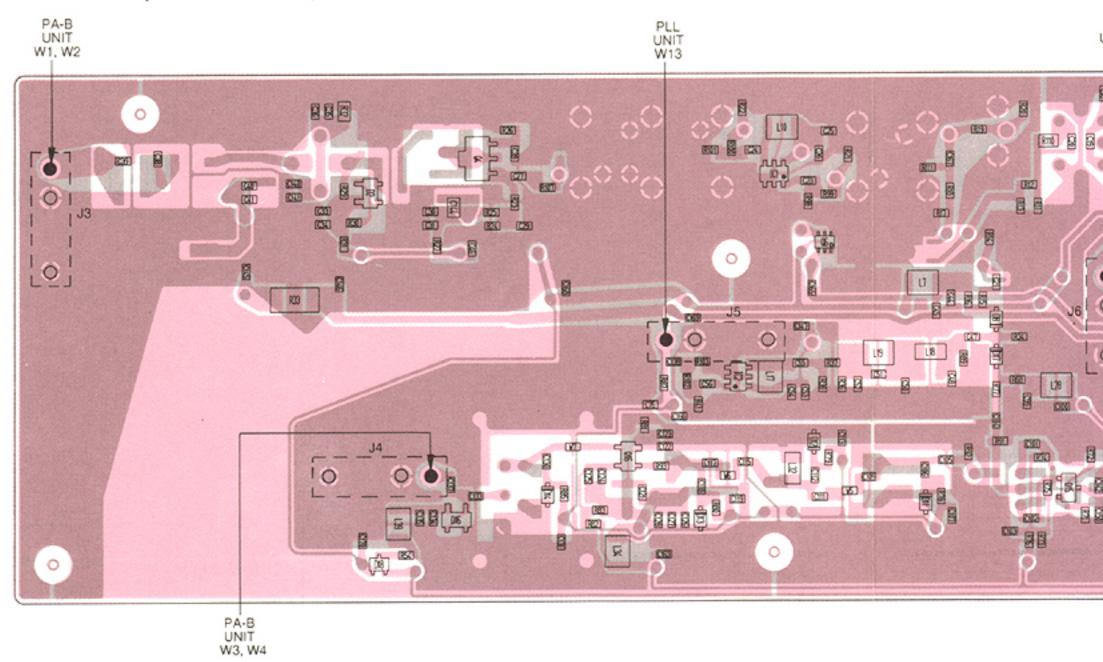


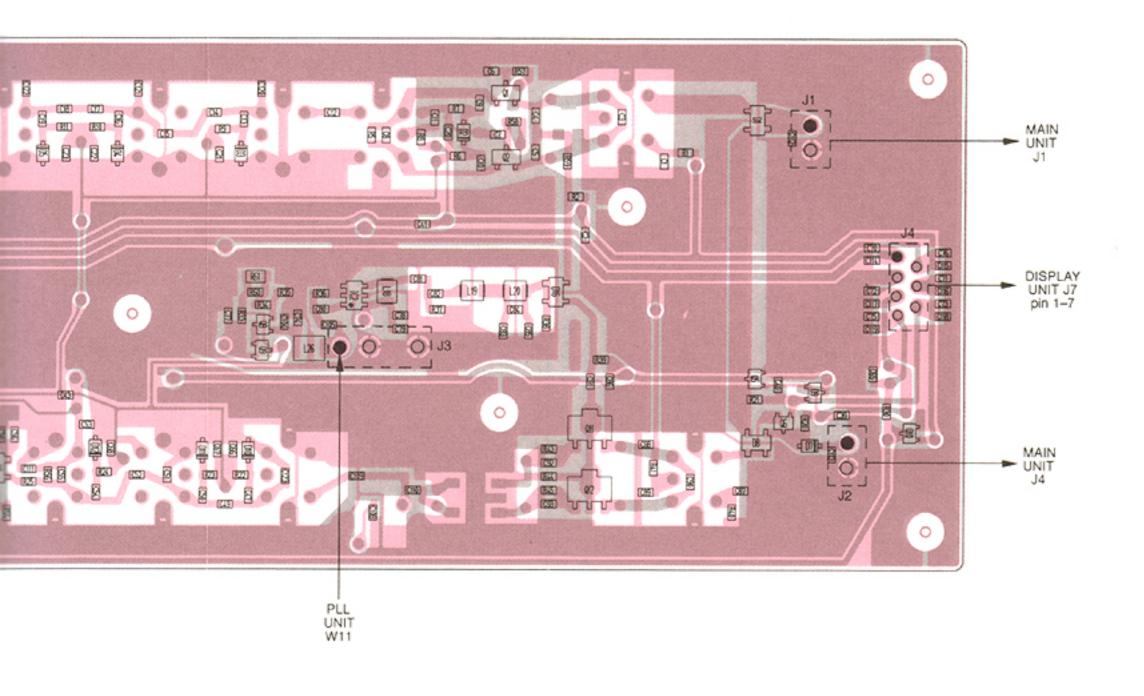


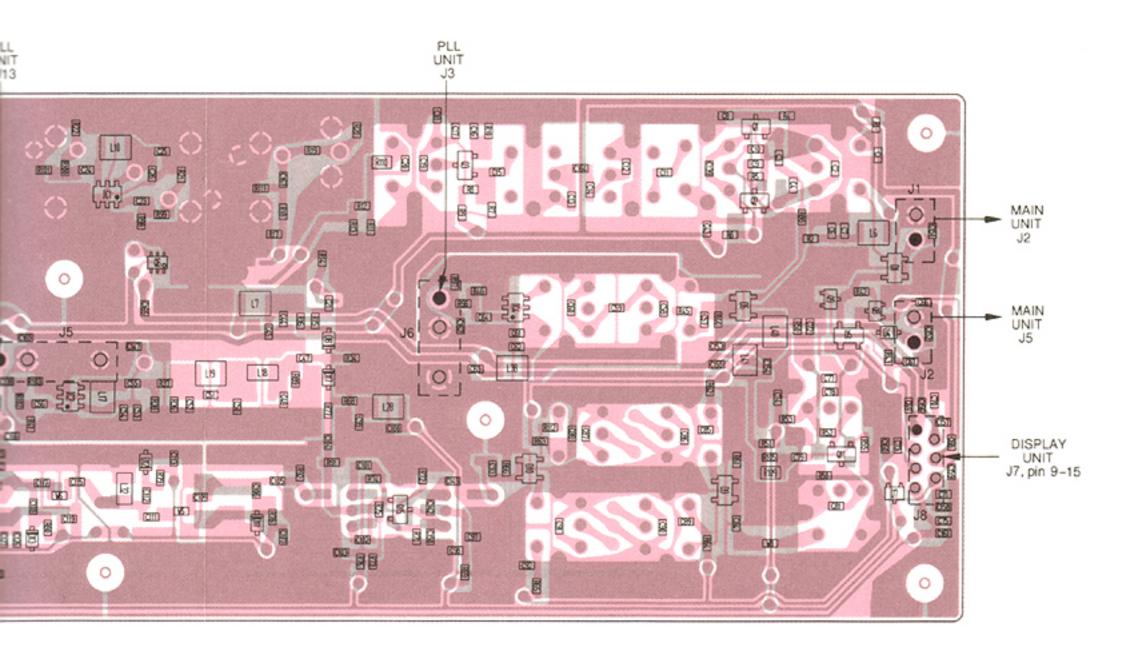
• RF-A UNIT (BOTTOM VIEW)



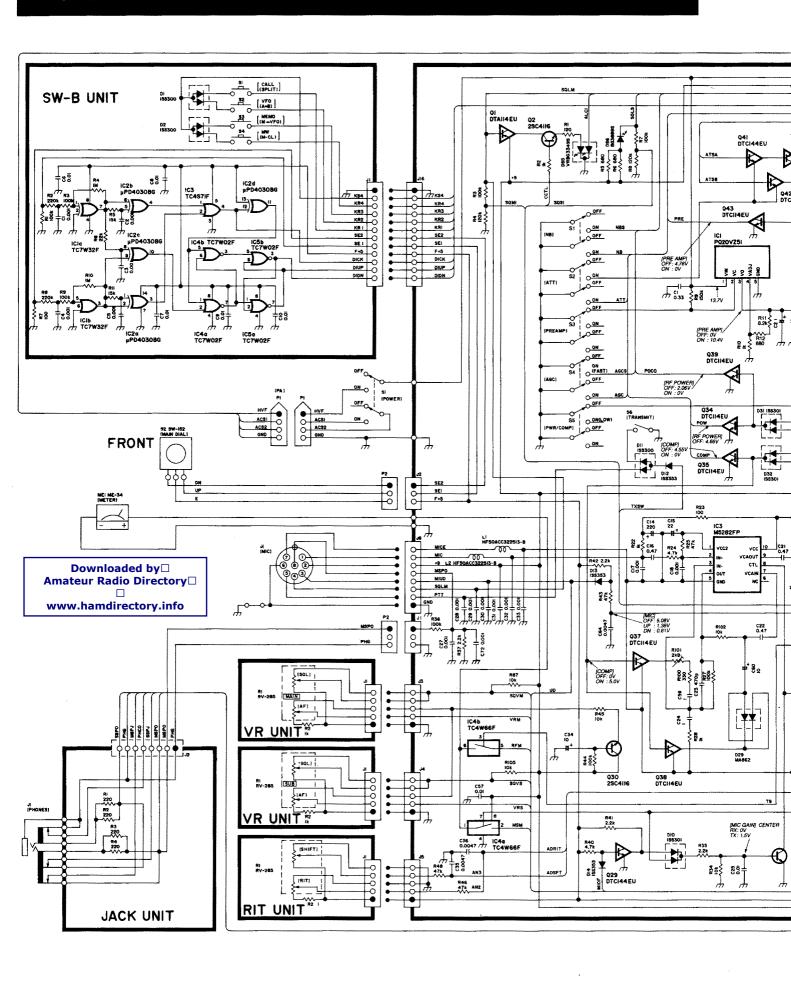
• RF-B UNIT (BOTTOM VIEW)

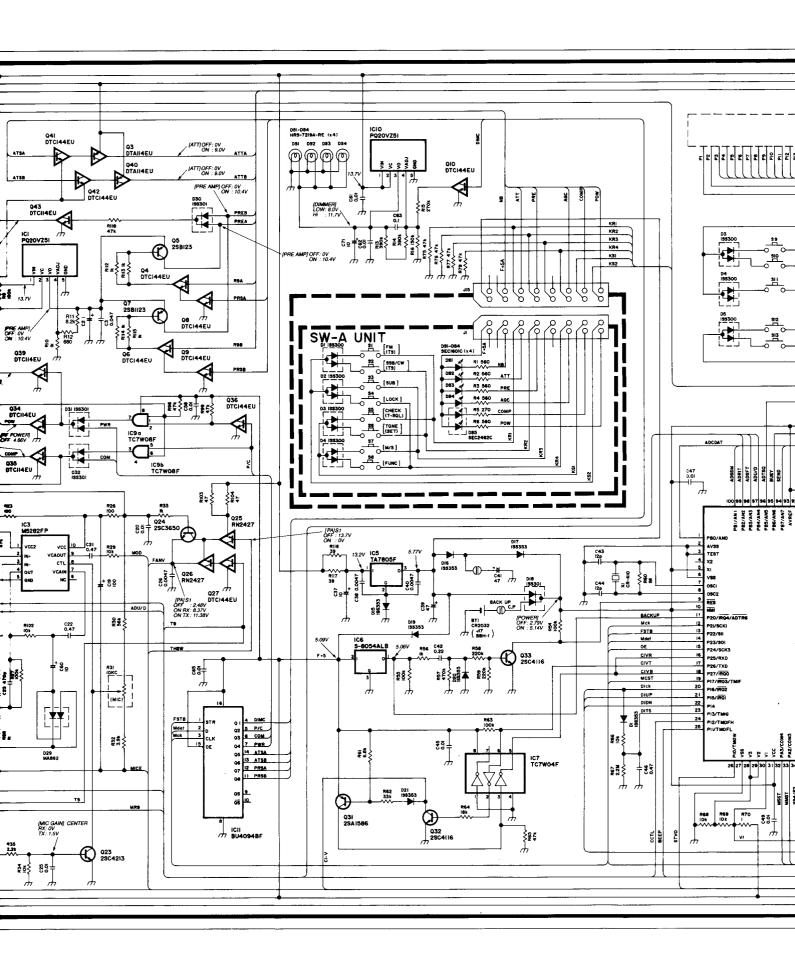


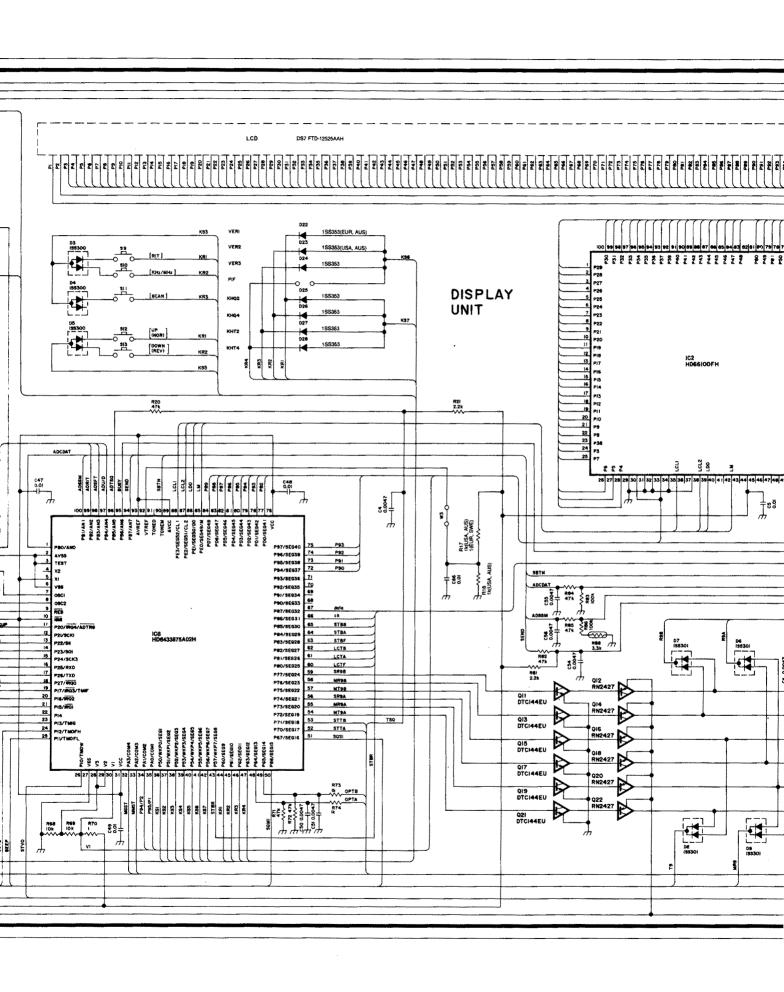


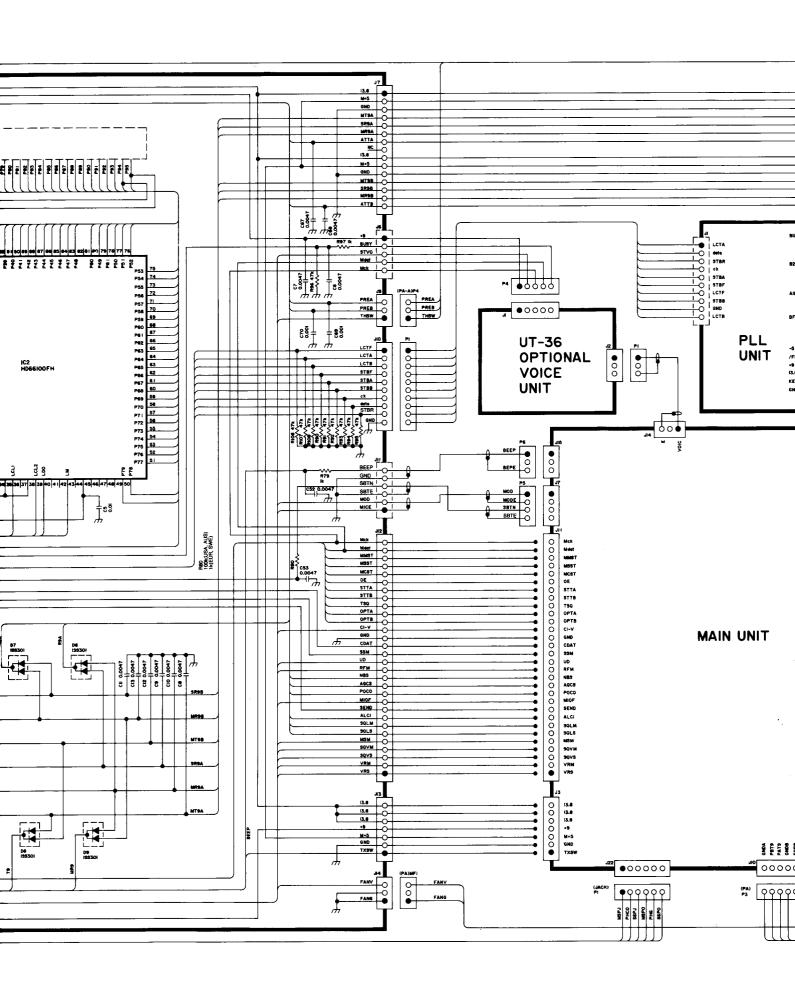


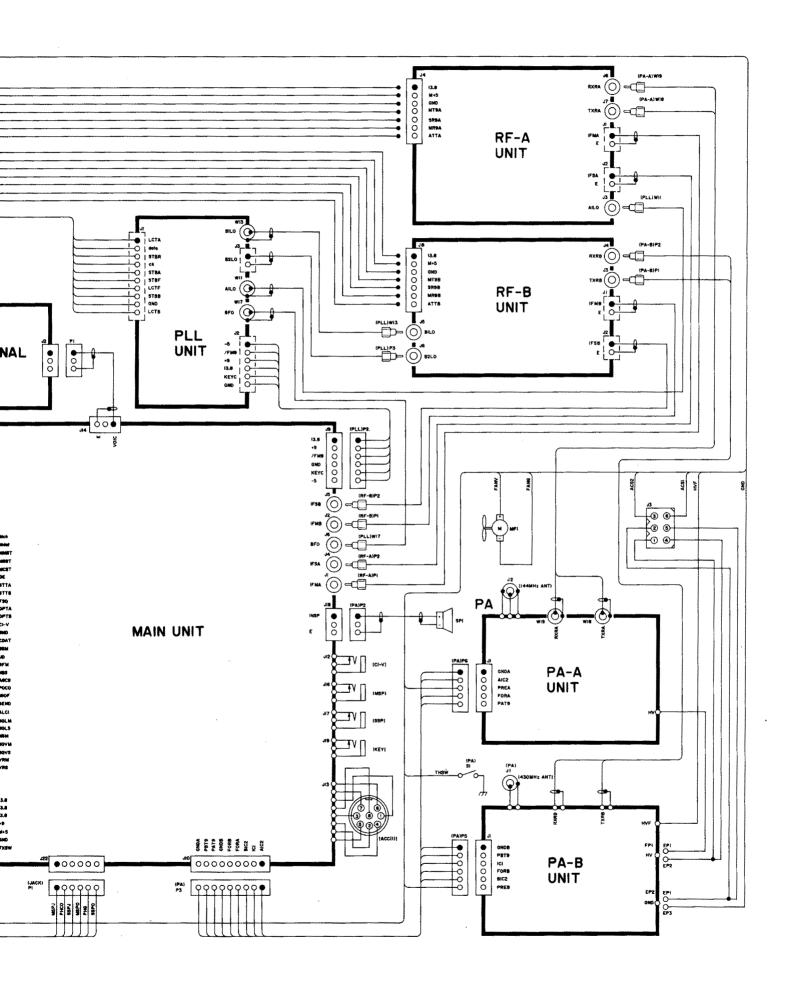
SECTION 10 VOLTAGE DIAGRAMS

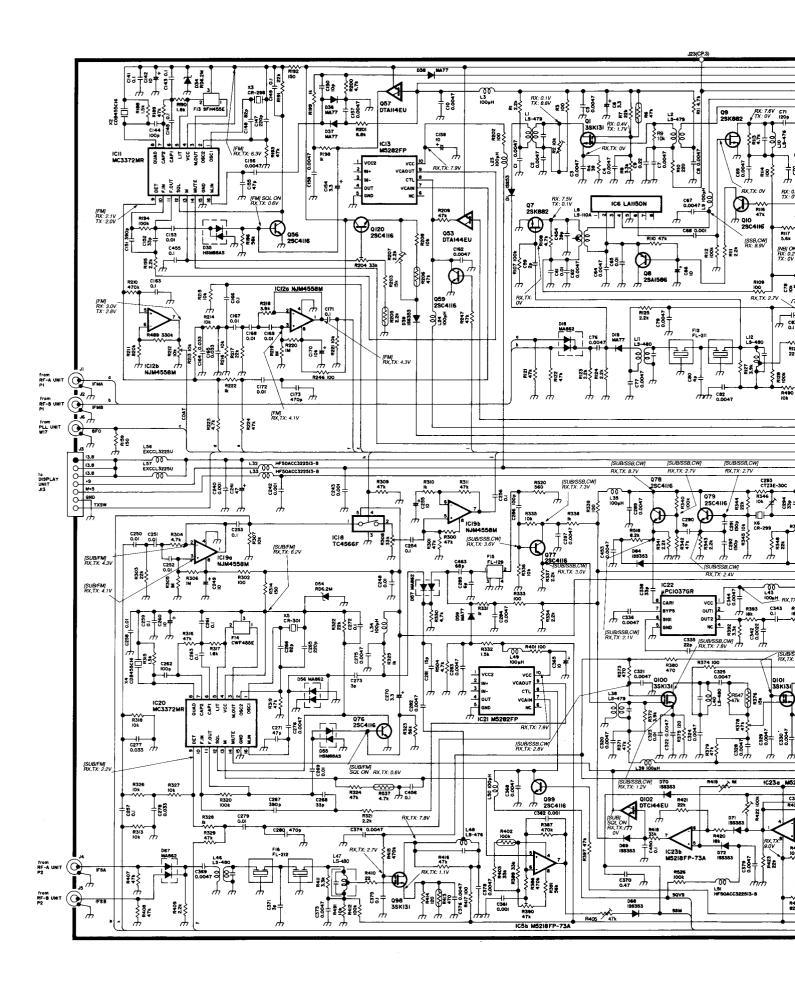




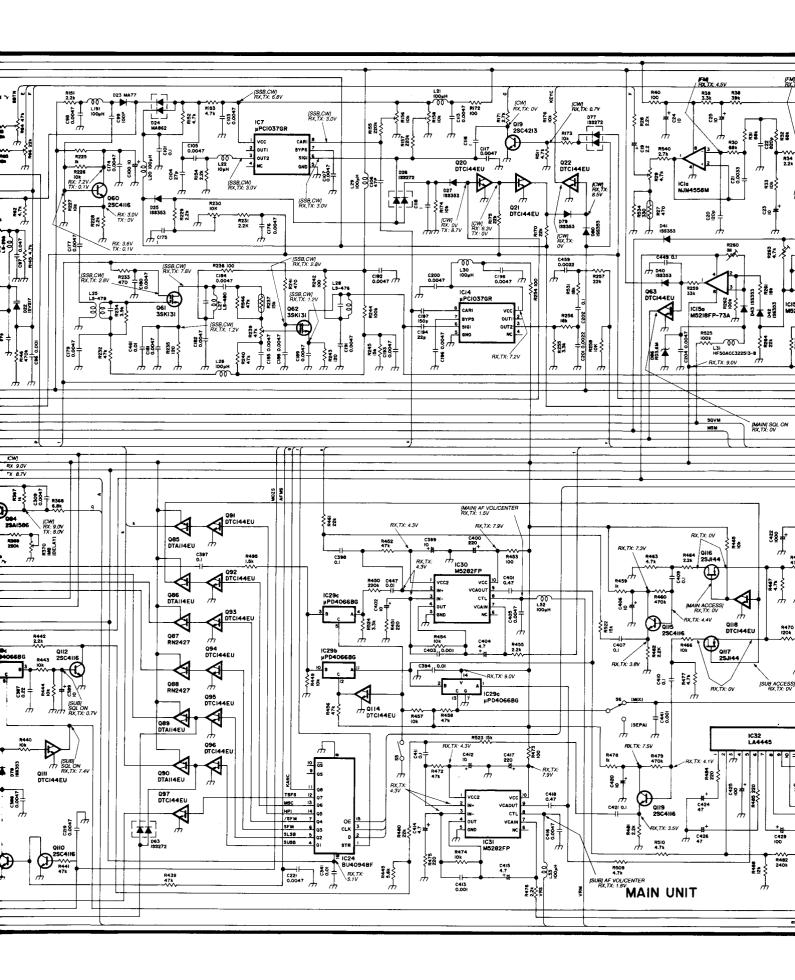


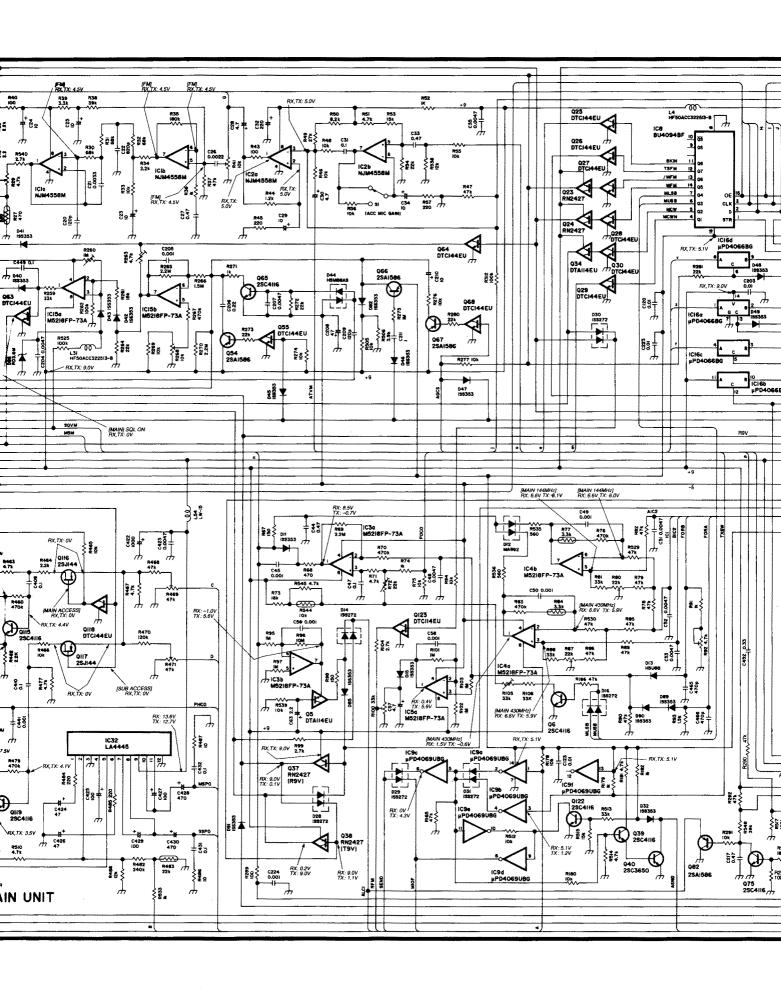


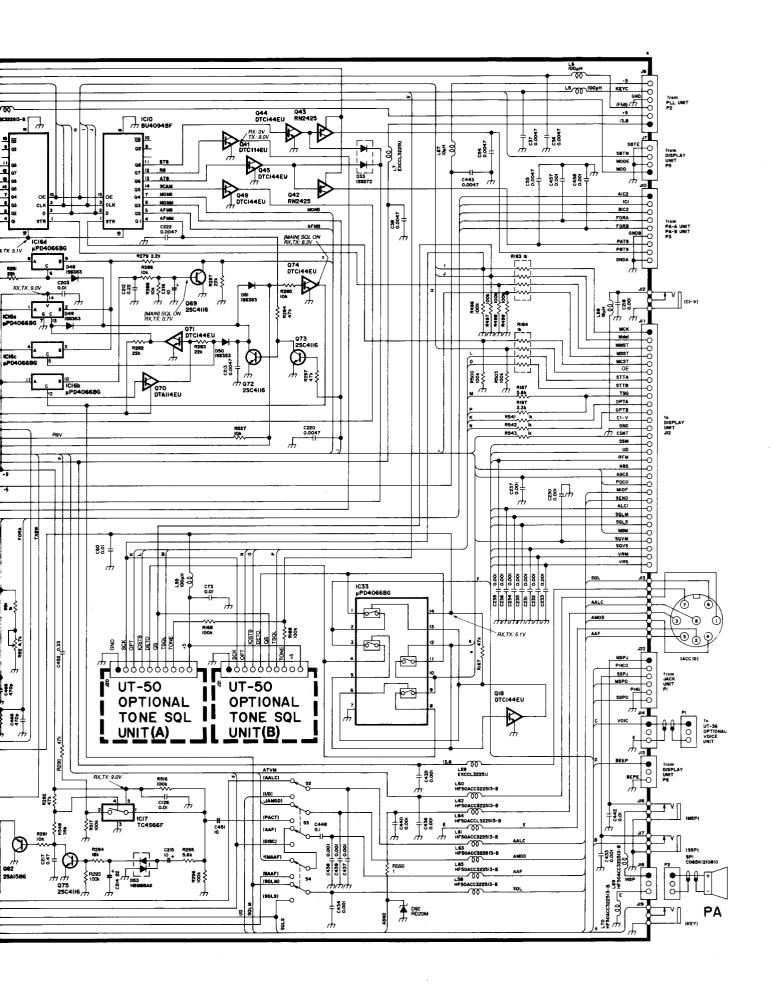


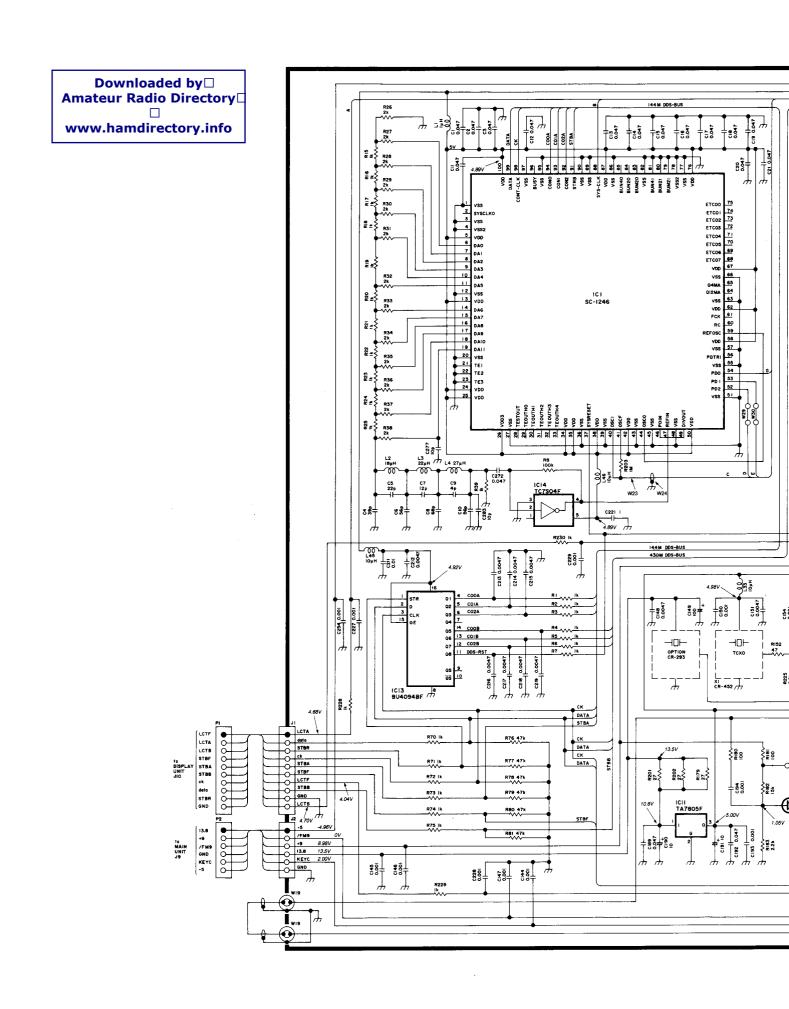


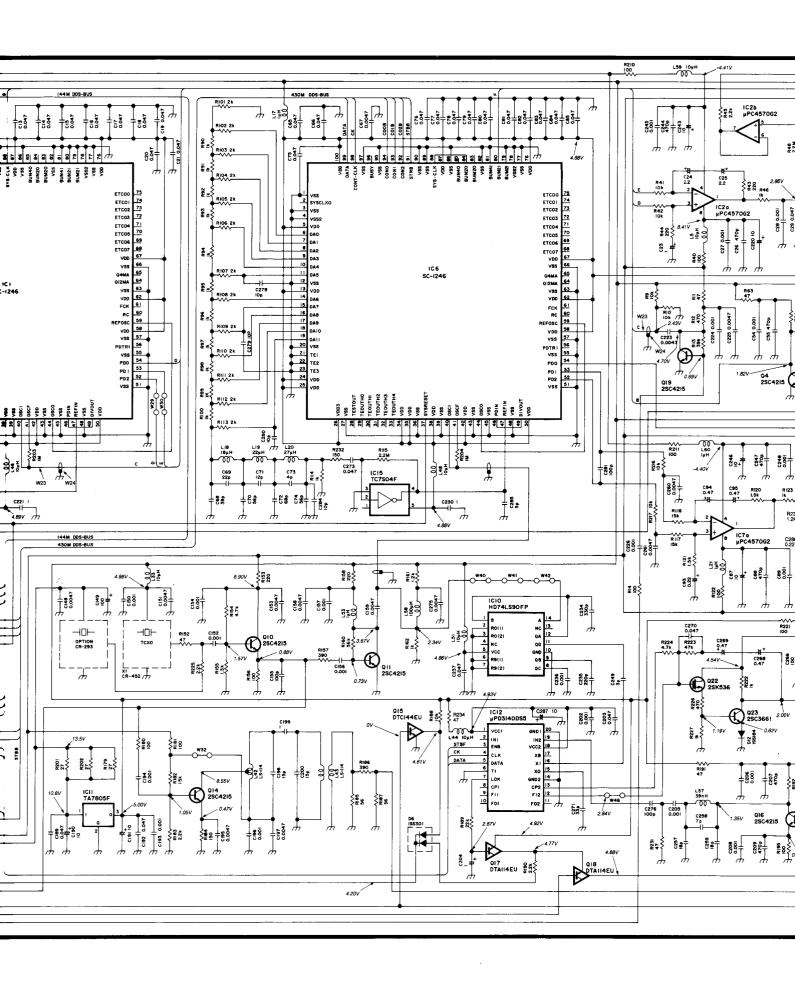


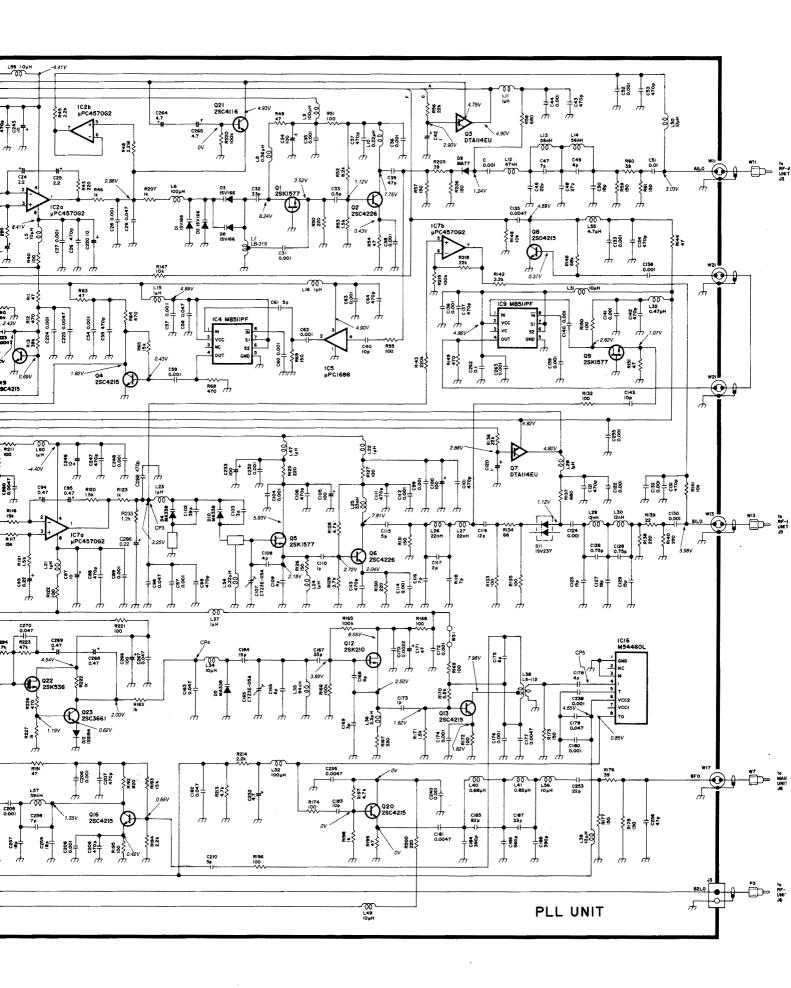


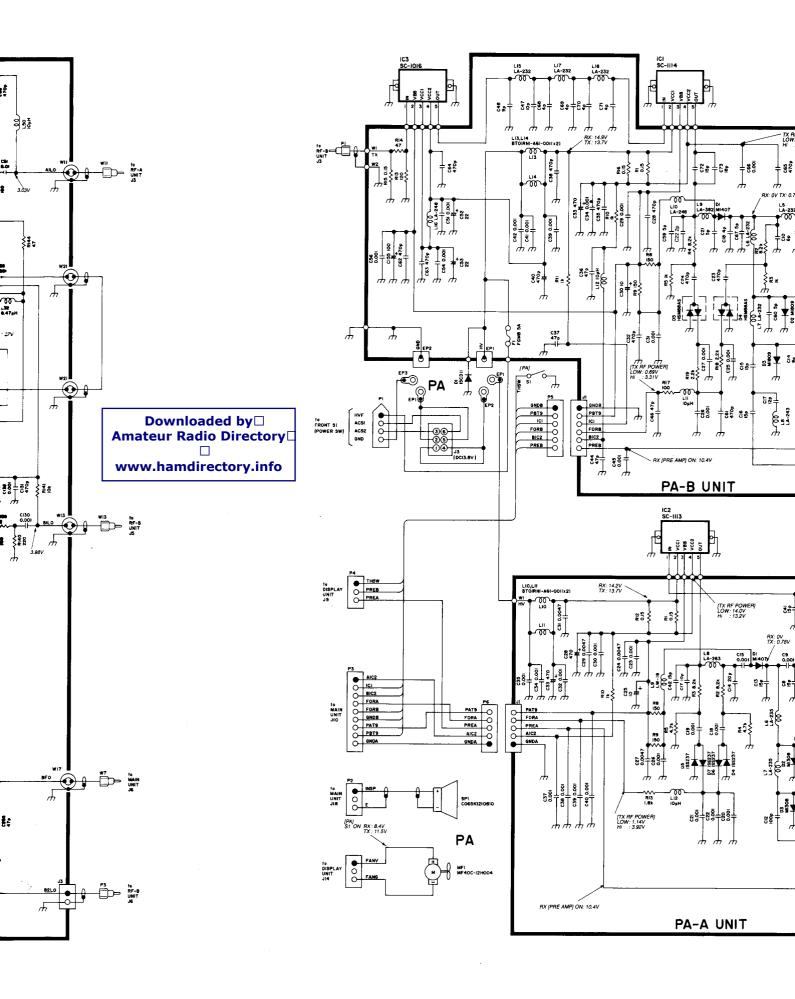


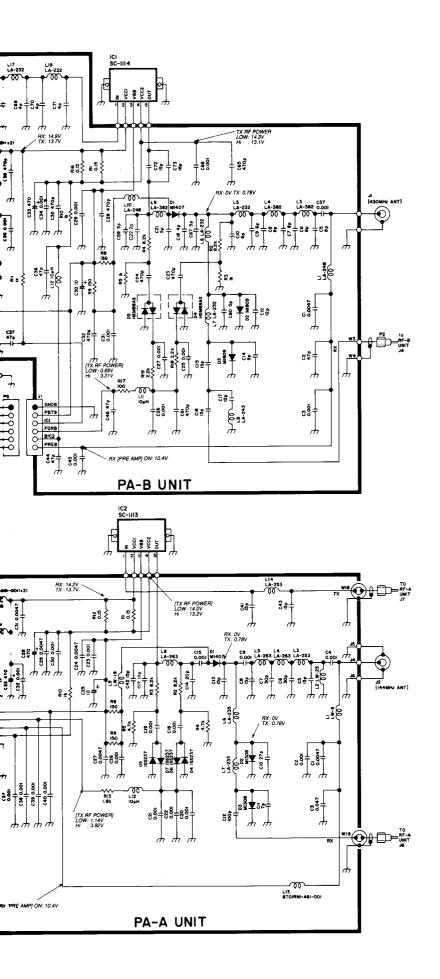


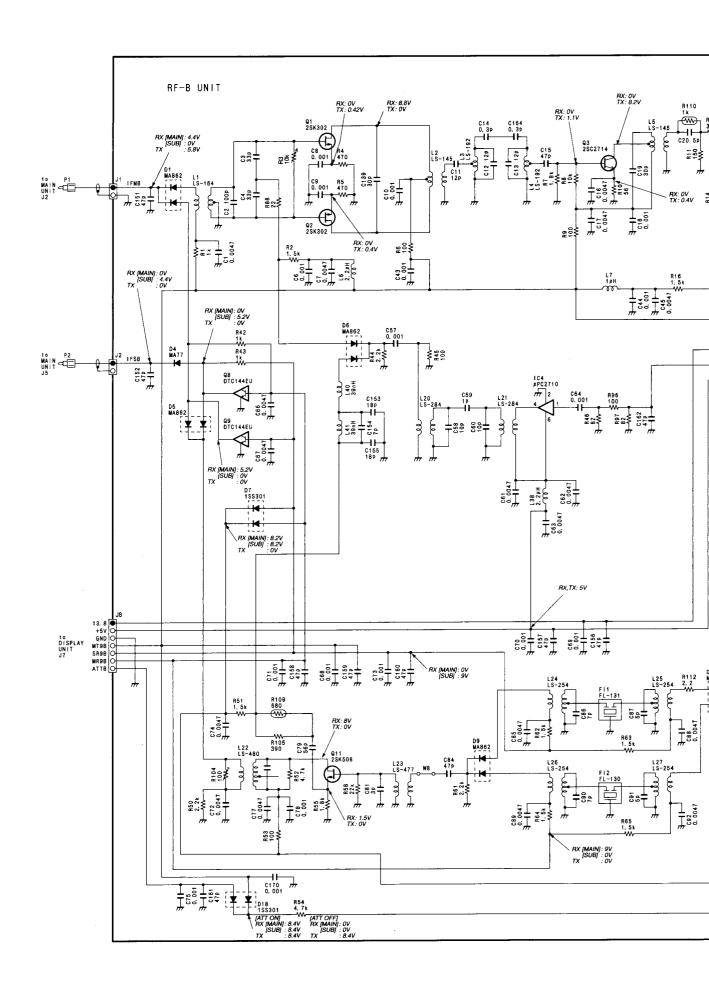


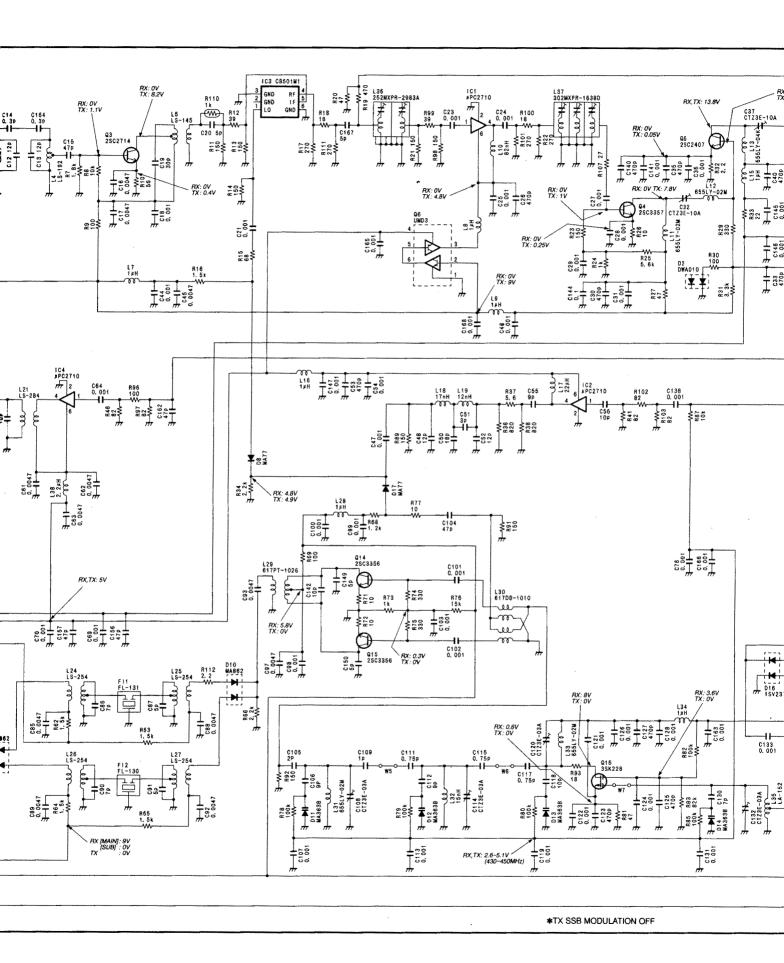


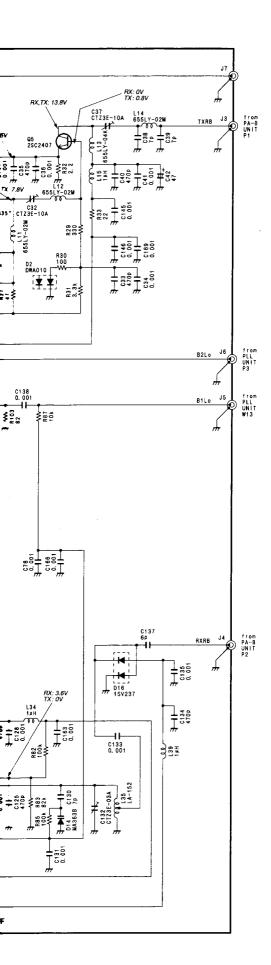


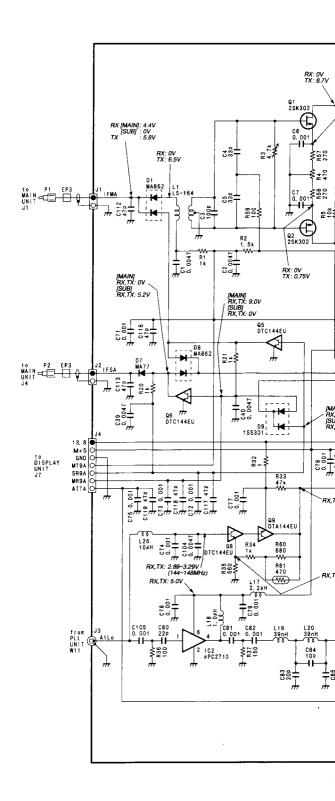




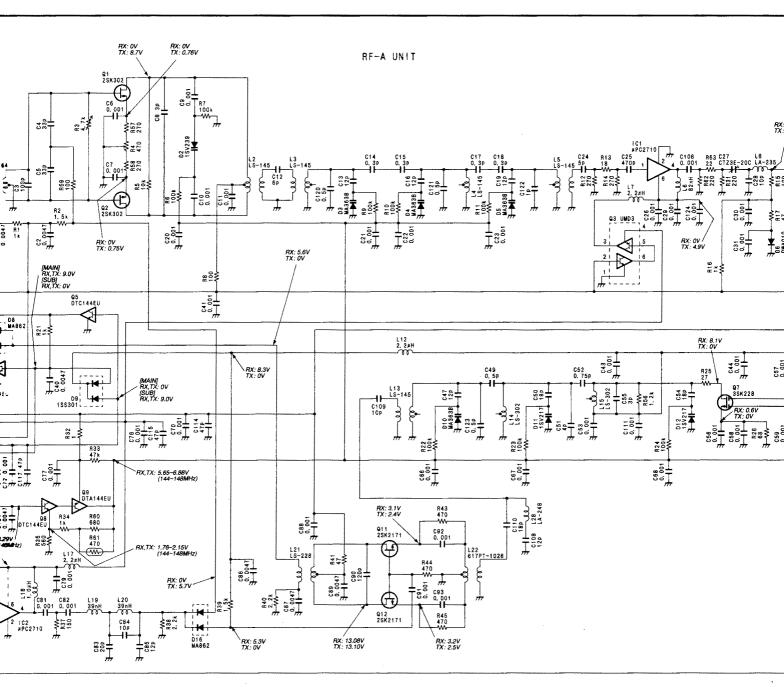


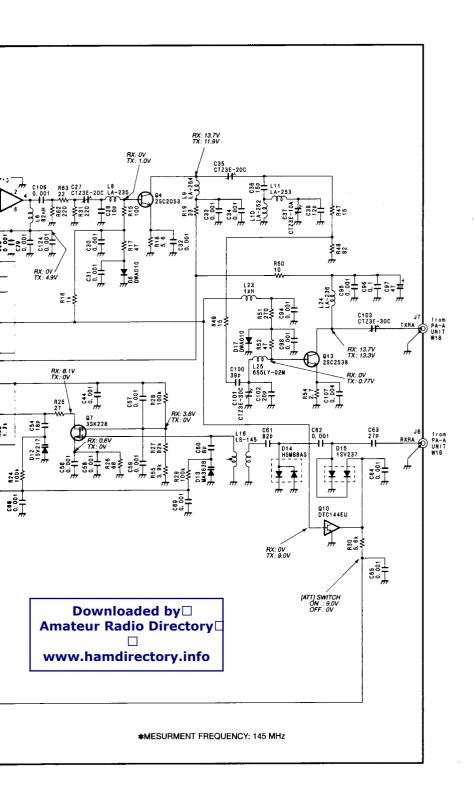




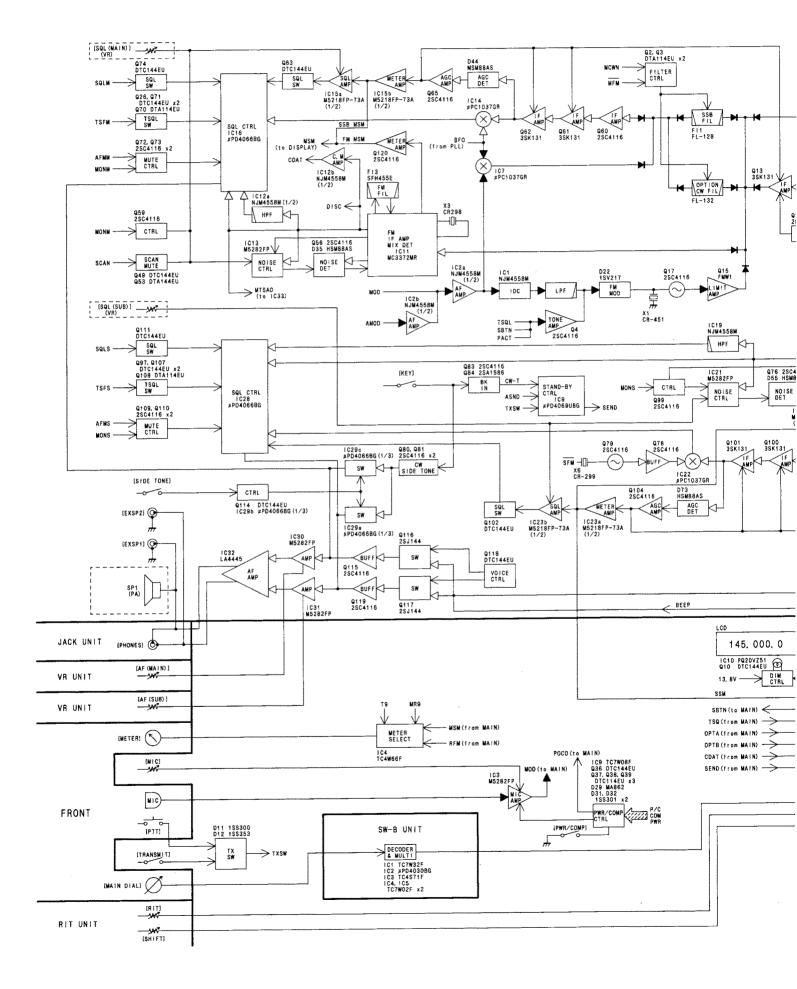


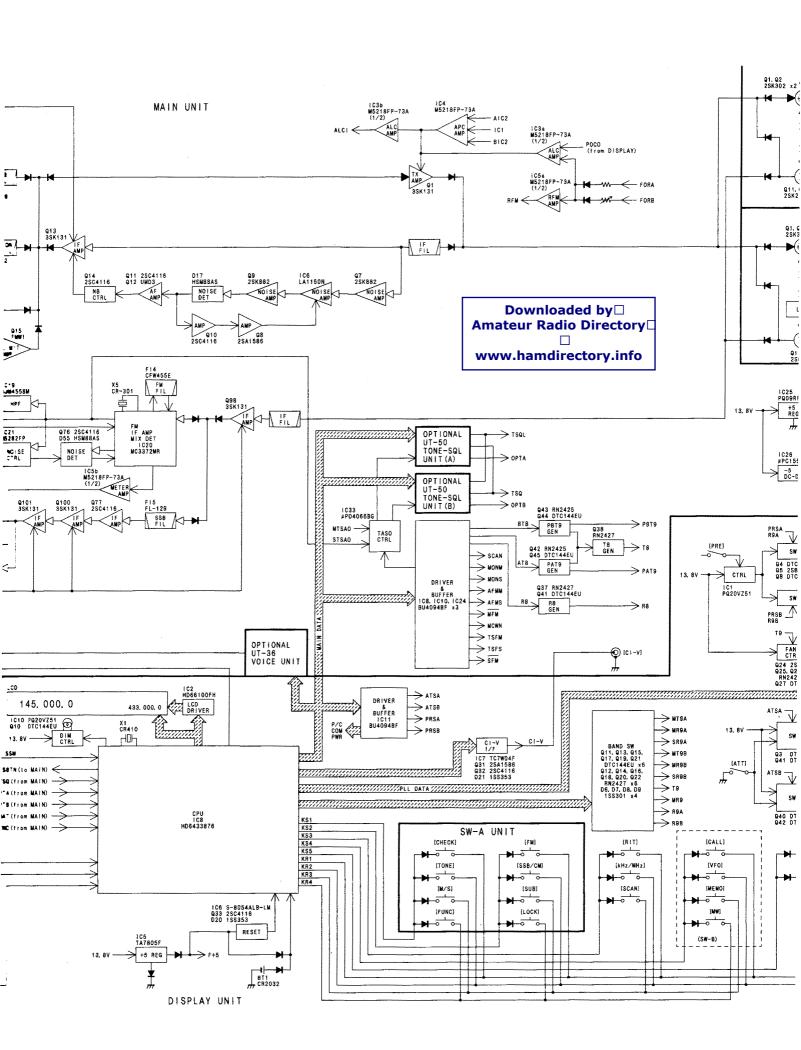
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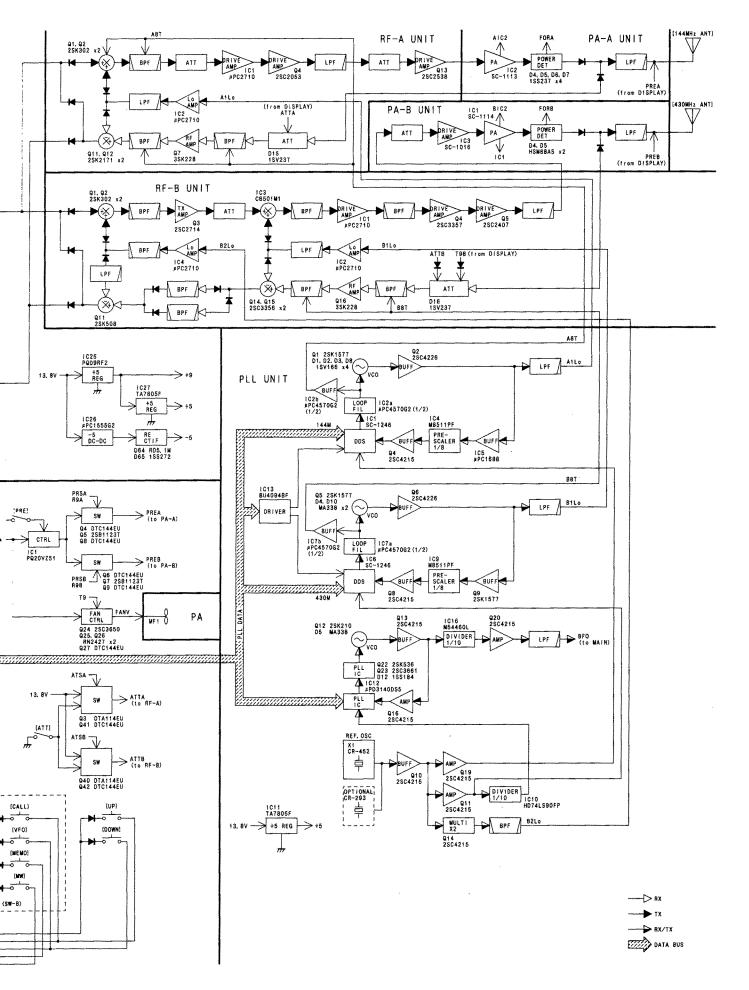




SECTION 11 BLOCK DIAGRAMS







Icom Inc.

6-9-16, Kamihigashi, Hirano-ku, Osaka 547, Japan

Phone: 06 793 5302 Fax : 06 793 0013 Telex: 05277822 ICOMTR J

Icom America Inc.

<Corporate Headquarters>
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Phone: (206) 454-8155
Fax : (206) 454-1509
Telex : 152210 ICOM AMER BVUE

<Customer Service> Phone : (206) 454-7619

<Regional Customer Service Center>
18102 Sky Park South, Suite 52-B, Irvine, CA 92714, U.S.A. Phone: (714) 852-8026
Fax : (714) 852-8716

Icom Canada

A Division of Icom America Inc. 3071 #5 Road, Unit 9, Richmond, B.C., V6X 2T4, Canada Phone: (604) 273-7400 Fax : (604) 273-1900

Icom (Europe) GmbH

Communication Equipment
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Phone: 0211 346047
Fax : 0211 333639

Icom (Australia) Pty. Ltd.

A.C.N 006 092 575 7 Duke Street, Windsor, Victoria, 3181, Australia Phone: 03 9529 7582 Fax : 03 9529 8485

Icom (UK) Ltd.

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